Carmel Convent Sr. Sec. School

Syllabus for Class XI (2023-24)

ENGLISH

MONTH	LITERATURE	GRAMMAR	WRITING
APRIL	**HornBill**: L-1 the portrait of a lady **Poem**: A Photograph	Gap Filling (Tenses)	Classified Advertisements (Situation Vacant / Wanted)
JULY	**Snapshots**: L-1 The Summer of Beautiful White Horse **HornBill** : L-2 We Are Not Afraid to Die **Poem**: The Laburnum Top	Clauses (Noun clause)	Classified Advertisements (Lost/Found), (Sale/Purchase) (To Let), (Tours/Travel), (Educational,Business)
AUGUST	**HornBill** :L-3 Discovering Tut: the Saga Continues **Snapshots**:L-2 The Address	Clauses Adjective,Adverb	Note Making (Reading Comprehension)
SEPTEMBER	**HornBill** : Poem : The Voice of Rain **Snapshots**:L-3 Mother's Day	Re-ordering of sentences	Speech
OCTOBER	**HornBill** : L-4 : The Ailing Planet **Poem** : Childhood **Snapshots**: L-4 : The Ghat of the Only World	Transformation of sentences	Poster making
NOVEMBER	**HornBill** : L-5 : The Adventure **Snapshots** : L-5 : Birth	Transformation of sentences	Debate writing
DECEMBER	**HornBill** : L-6 : Silk Road	Transformation of sentences	
JANUARY	**HornBill** : Poem : Father to Son **Snapshots**: Poem : The Tale of Melon City	Re - ordering of sentences.	Revision

हिंदी

माह	पाठ
अप्रैल	1. नमक का दरोगा. 2. कबीर

जून-जुलाई	1. मियाँ नसीरुद्दीन 2. अप्पू के ढाई साल 3. मीरा के पद 4. लता मंगेश्कर
अगस्त	1. अभिव्यक्ति और माध्यम 2. विदाई संभाषण 3. गलता लोहा
सितंबर	जनसंचार 1. रजनी 2. घर की याद 3. राजस्थान की रजत बूंदे
अक्टूबर	1. जनसंचार 2. जामुन का पेड़ 3. चंपा काले-काले अक्षर नहीं चीन्हती 4.गजल
नबंवर	1. हे! भूख मत मचल 2. भारत माता 3. सबसे खतरनाक
दिसम्बर	1. आओ आँधारी 2. मिलकर बचाएँ
जनवरी	सभी पाठों की पुनरावृत्ति की जाएगी

MATHS

MONTH	CHAPTER
APRIL	Ch-8 Sequences and Series
JULY	Ch-1 Sets Ch-2 Relations and Functions
AUGUST	Ch-3 Trigonometric Functions Ch-4 Complex Numbers and Quadratic Equations Ch-5 Linear Inequalities
SEPTEMBER	Ch-9 Straight Lines Ch-6 Permutations and Combinations Ch-7 Binomial Theorem
OCTOBER	Ch-10 Conic Sections Ch-11 Introduction To 3-Dimensional Geometry
NOVEMBER	Ch-13 Statistics Ch-14 Probability
DECEMBER	Ch-12 Limits and Derivatives
JANUARY	Revision

ACCOUNTANCY

MONTH	TOPIC COVERED
APRIL	**PART-A Financial Accounting -I** • Introduction to Accounting • Basic Accounting terms
JUNE-JULY	**PART-A Financial Accounting -I** • Theory base of Accounting& International Financial Reporting Standard • Process and Bases of Accounting • Accounting Equations
AUGUST	• Goods and Service Tax (GST) • Journal- Books of original entry • Cash Book • Trial balance
SEPTEMBER	• Special purpose Book-Others • Ledger • Trial Balance
OCTOBER	• Depreciation • Provision and Reserve
NOVEMBER	**PART-B Financial Accounting –II** • Financial Statement without Adjustment • Financial Statement with Adjustment • Incomplete records
DECEMBER	• Rectification of Errors
JANUARY	• Bank Reconciliation statement

BIOLOGY

MONTH	CHAPTER
APRIL	**UNIT-I Diversity in living world** Ch 1 The living world Ch 2 Biological classification
JULY	Ch 3 Plant kingdom Ch 4 Animal kingdom
AUGUST	**UNIT -II Structural organisation in plants and animals** Ch 5 Morphology of flowering plants Ch 6 Anatomy of flowering plants Ch 7 Structural organisation in animals
AUGUST	**UNIT -III Structure and functions** Ch 8 Cell-the unit of life
SEPTEMBER	Ch 9 Biomolecules Ch 10 Cell cycle and division

OCTOBER	**UNIT- IV Plant physiology** Ch 11 Photosynthesis in higher plants Ch 12 Respiration in plants Ch 13 Plant growth and development
NOVEMBER	**UNIT V Human physiology** Ch 14 Breathing and exchange of gases Ch 15 Body fluids and circulation Ch 16 Excretory products and their elimination
DECEMBER	Ch 17 Locomotion and movement Ch 18 Neural control and coordination
JANUARY	Ch 19 Chemical coordination and integration Revision and practical

CHEMISTRY

MONTH	CHAPTER
APRIL	Ch 1 Some basic concepts of chemistry
JULY	Ch 2 Structure of Atom
AUGUST	Ch 3 Classification of elements and periodicity in properties
SEPTEMBER	Ch 4 Chemical bonding and molecular structure
OCTOBER	Ch 6 Chemical Thermodynamics
NOVEMBER	Ch 7 Equilibrium
DECEMBER	Ch 8 Redox Reactions
JANUARY	Ch 12 Oranic chemistry: Some basic principles & techniques Ch 13 Hydrocarbons
FEBRUARY	Ch 13 Hydrocarbons (Contd) Revision

PHYSICS

MONTH	CHAPTER
APRIL	**I Physical World and Measurement**- Ch 1 Physical World
JULY	Ch 2 Units and Measurements **II Kinematics -** Ch 3 Motion in a Straight Line Ch 4 Motion in a Plane
AUGUST	**III Laws of Motion**- Ch 5 Laws of Motion
SEPTEMBER	**IV Work, Energy and Power**- Ch 6 Work, Energy and Power
OCTOBER	**V Motion of System of Particles-** Ch 7 System of Particles and Rotational Motion

	VI Gravitation- Ch 8 Gravitation
NOVEMBER	**VII Properties of Bulk Matter**- Ch 9 Mechanical Properties of Solids Ch 10 Mechanical Properties of Fluids Ch 11 Thermal Properties of Matter
DECEMBER	**VIII Thermodynamics**- Ch 12 Thermodynamics **IX Kinetic Theory Gases**- Ch 13 Kinetic Theory
JANUARY	**X Oscillation and Waves-** Ch 14 Oscillations Ch 15 Waves Practical

BUSINESS STUDIES

MONTH	TOPIC
APRIL & JULY	**UNIT 1** Nature & Purpose of Business **UNIT 2** Forms of Business Organizations (+ Project work) Revision (For PT 1 exams)
AUGUST	**UNIT 3** Public, Private & Global Enterprises **UNIT 4** Business Services **UNIT 7** Sources of Business Finance (cont….) + Project work Revision (for PT 2 exams)
SEPTEMBER	**UNIT 7** Sources of Business Finance + Project work Revision (for TERM 1 exams)
OCTOBER	**UNIT 5** Emerging Modes of Business **UNIT 6** Social Responsibility of Business & Business Ethics + Project work **UNIT 8** Small Business (begins)
NOVEMBER	**UNIT 8** Small Business **UNIT 9** Internal Trade
DECEMBER	**UNIT 10** International Business (Introduction) Revision (PT 3 exams)
JANUARY	**UNIT 10** International Business (cont…..) + Project work
FEBRUARY	Revision of topics covered + Project work Term 2 exams

HISTORY

MONTH	TOPIC
APRIL & JULY	Introduction **Section A**- Writing and city life
AUGUST	**Section B**- An empire across three continents
SEPTEMBER	**Section B**- Nomadic empire

OCTOBER	**Section C**- The three orders Changing cultural traditions
NOVEMBER	**Section D**- Introduction Displacing indigenous people
DECEMBER	Paths to modernisation
JANUARY	Map work and revision

ECONOMICS

Month	Name of the Lesson
April-July	**Micro**- Ch 1: Economics & Economy Ch 2: Central problems of economy. Ch 3: Consumers equilibrium utility analysis Ch 4: Consumers equilibrium Indifference curve analysis Extra questions & Recapitulations.
July-August	**Micro**-Ch 5: Theory of demand Ch 6: Price Elasticity of demand **Statistics**- Ch 1 : Significance of statistics in Economics Ch 2: Collection of data. Extra questions & Recapitulations.
September - October	**Statistics** - Ch 3 : Census & sample methods of collection of data. Ch 4 : Organisation of data Ch 5 : Textual & tabular presentation Ch 6 : Bar Diagrams **Micro**- Ch 7: Production function
November	**Micro**- Ch 8: Concepts of cost Ch 9: Concepts of revenue. **Statistics**- Ch 7: Histograms Ch 8: Line Graphs Ch 9 :Measures of central tendency
December	**Statistics**- Ch 10: Measures of central tendency Ch 11: Measures of dispersion **Micro**- Ch 10 :Concepts of producer equilibrium Ch 11 :Theory of supply Ch 12: Forms of Market
January	**Micro**- Ch 13:Market Equilibrium **Statistics**- Ch 12: Correlation Recapitulation
February	**Statistics**- Ch 13: Index numbers Revision Micro & Statistics

PHYSICAL EDUCATION

MONTH	CHAPTER

APRIL	1. PHYSICAL EDUCATION CHANGING TRENDS AND CARRER IN PHYSICAL EDUCATION • Definition of physical education • Aims and objectives • Concept and principles of integrated physical education • Concept of adapted
JULY	2. OLYMPISM • Ancient and modern Olympic • International Olympic committee • Indian Olympic association • Olympic symbols Motto, oath, and anthem • Olympic movement structure IOC, NOC, IFS, other members 3. YOGA • Meaning and importance of yoga • Elements of yoga • Introduction to asana, pranayama, meditation. • Physiological benefits of asana. • Prevention of common lifestyle diseases obesity, diabetes, hyper tension, back pain
AUGUST	4. PHYSICAL EDUCATION AND SPORTS FOR CHILDREN WITH SPECIAL NEED • concept of disability and disorder • types of disability (cognitive, intellectual, physical disability) • Adapted physical education
SEPTEMBER	5. PHYSICAL FITNESS, WELLNESS, AND HEALTHY LIFESTYLE • Meaning and importance of physical fitness • Components of physical fitness • Components of wellness • Components of positive lifestyle • TRADITIONAL SPORTS AND REGIONAL GAMES
OCTOBER	6. TEST AND MEASUREMENT • DEFINITIONS • Importance of test and measurement • Calculation of BMI & waist and hip ratio • Somatotype (ectomorph mesomorph endomorph) 7. FUNDAMENTALS OF ANATOMY AND PHYSIOLOGY • DEFINITIONS • Importance of anatomy and physiology • Functions of various system • Circulatory system, respiratory system, muscular system etc. • Oxygen debt, second wind

NOVEMBER	8. BIOMECHANICS AND SPORTS • Meaning and importance of bio mechanics • Newtons law of motion • Principles of biomechanics • Axis and Planes • Types of movements • Application in sports
DECEMBER	9. PSYCHOLOGY IN SPORTS • DEFINITION AND IMPORTANCE • Adolescent problems and their management • Laws of learning and transfer of training • Plateu causes of plateu 10. TRAINING AND DOPING IN SPORTS • Meaning and concept • Principle of sports training • Warming up and limbering down • Adaptation and recovery • Overload 11. DOPING • Concept and classification of doping • Prohibited method and substances • Ergogenic aids and doping in sports • Doping control procedure

MUSIC

MONTH	CHAPTER
APRIL	Brief of the following: Nada, Shruti,Dwani, swara, Saptap, Tala,margi-desi, Jati, Raag, Swarmalika, Lakshangeet, Laya, Thaat, Nibaddha and Anibaddhagan. Alankar and Tala
JULY	Brief History of Dhrupad, Khayal, Tarana and Gharana One Raag
AUGUST	Description of talas and tala-notation Knowledge of structure of tanpura Keeping tala with hand beats
SEPTEMBER	Revision
OCTOBER	Raag Varnan and writing in notation the composition of prescribed ragas One Raag
NOVEMBER	Brief study of musical elements Revision
DECEMBER	Contribution and life sketch of Musicians One devotional song
JANUARY	Knowledge of time- theory Revision

PAINTING

MONTH	SYLLABUS
April	Introduction of Basics of Art.
July	Pre Historic Rock Painting. Art Of Indus Valley Civilization.
August	Buddhist Hindu and Jain Art. Ajanta Caves and its Paintings and Sculptures.
September	Revision
October	Temple Sculpture Bronzes Indo Islamic Architecture.
November	Rajasthan School Of Miniature Painting
December	Artists of Rajasthan School of Miniature painting Introduction of Pahari School Miniature Painting

POLITICAL SCIENCE

MONTH	Name of lesson
APRIL	(**PART A**) Ch 1- Constitution-Why and How?
JULY	Ch 2 – Rights in the Indian Constitution Ch 3 – Election and Representation
AUGUST	Ch 4 – Executive Ch 5 – Legislature
SEPTEMBER	Ch 6 – Judiciary Ch 7- Federalism Ch 8 – Local Governments
OCTOBER	Ch 9 – Constitution as a Living Document Ch 10 – The Philosophy of the Constitution
NOVEMBER	(**PART B**) Ch 1– Political Theory Ch 2 - Freedom Ch 3– Equality Ch 4- Justice
DECEMBER	Ch 5– Rights Ch 6-Citizenship
JANUARY	Ch 7– Nationalism Ch 8 - Secularism

COMPUTER SCIENCE

Computer Science 2023-24 (Split-up Syllabus) **Book :COMPUTER SCIENCE, Textbook for Class XI (NCERT)**	
Month	**Portion to be covered.**
17 April 2023	**Unit I: Computer Systems and Organisation** **Chapter 2: Encoding Schemes and Number System** • Encoding schemes: ASCII, ISCII and UNICODE (UTF8, UTF32) • Number system: Binary, Octal, Decimal and Hexadecimal

	number system; conversion between number systems.
July 2023	**Unit I: Computer Systems and Organisation** **Chapter 4 : Introduction to Problem Solving** • Introduction to problem solving: Steps for problem solving (analysing the problem, developing an algorithm, coding, testing and debugging). • Representation of algorithms using flow chart and pseudo code, decomposition **Unit II: Computational Thinking and Programming – 1** **Chapter 5 : Getting Started with Python** • Familiarization with the basics of Python programming: Introduction to Python, features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens (keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments • Knowledge of data types: number (integer, floating point, complex), boolean, sequence (string, list, tuple), none, mapping (dictionary), mutable and immutable data types
August 2023	**Unit II: Computational Thinking and Programming – 1** **Chapter 5: Getting Started with Python** • Operators: arithmetic operators, relational operators, logical operators, assignment operator, augmented assignment operators, identity operators(is, is not), membership operators(in, not in) • Expressions, statement, type conversion & input/output: precedence of operators, expression, evaluation of expression, python statement, type conversion (explicit & implicit conversion), accepting data as input from the console and displaying output • Errors: syntax errors, logical errors, runtime errors **Unit I: Computer Systems and Organisation** **Chapter 1 : Computer System** • Basic Computer Organisation: Introduction to computer system, hardware, software, input device, output device, CPU, memory and its units. • Types of software: system software (operating systems, system utilities, device drivers), programming tools and language translators , application software
September 2023	**Unit II: Computational Thinking and Programming – 1** **Chapter 6: Flow of Control** • Flow of control: introduction, use of indentation, sequential flow, conditional and iterative flow control • Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility

	of a number • Iterative statements: for loop, range function, while loop, flowcharts, break and continue statements, nested loops, suggested programs: generating pattern, summation of series, finding the factorial of a positive number etc **Unit I: Computer Systems and Organisation** • Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables and De Morgan's laws, Logic circuits
October 2023	**Unit III: Society, Law and Ethics** **Chapter 11: Societal Impact** • Digital Footprints , Digital society and Netizen • Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source softwares and licensing • Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime • Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying. • Safely accessing web sites: malware, viruses, trojans, adware • E-waste management: proper disposal of used electronic gadgets • Indian Information Technology Act (IT Act) • Technology & Society: Gender and disability issues while teaching and using computers **Unit II: Computational Thinking and Programming – 1** **Chapter 8: Strings** • Strings introduction, indexing, string operations (concatenation, repetition, membership & slicing), traversing a string using loops • String built-in functions: len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split()
November 2023	**Unit II: Computational Thinking and Programming – 1** **Chapter 9 : Lists** • Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, • Lists built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists\ • Chapter 9 : Functions : Introduction to Functions (UDFs)
December2023	**Unit II: Computational Thinking and Programming – 1** **Chapter 10 : Tuples and Dictionaries**

	• Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing). • Tuples built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple.
January2024	**Unit II: Computational Thinking and Programming – 1** **Chapter 10 : Tuples and Dictionaries** • Dictionary: introduction, accessing itemsin a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary • built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy(); **Introduction to Python modules** • Importing module using 'import ' and using from statement, Importing math module (pi, e,sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode)
February 2024	**Project Work**
	Remedial classes: on Saturdays (during school hours)

APPLIED MATHS

Month	Chapter Name
April - May	Ch 2- Indices and Logarithms
June-July	Ch 4- Mensuration Ch 6- Sequence and Series Ch 3-Quantitative Aptitude
August	Ch 12- Probability Ch 5- Sets and Relation Ch 1- Numbers
September	Ch 7- Permutation and Combination Ch 13- Descriptive Statistics
October	Ch 14- Compound Interest and Annuity
November	Ch 17- Straight Lines Ch 9- Functions Ch 10- Limits and Continuity
December	Ch 15- Taxation Ch 16- Utility Bills
January	Ch 18- Circle and Parabola Ch 8- Logical Reasoning Ch 11- Derivatives

KATHAK

MONTH	CHAPTER
APRIL	Theory- History of Indian dance and history of

	kathak dance. Practical- Practice of standing position and various patterns of
JULY	Theory- Tali, Khali, Sam, Tihaayi, Kasak, Masak, Theka, Dugun, Tigun, Chougun, Kataksh, Tandav-Lasya. Practical- Practice of hastak, chakkar, vandana, Bol-tade.
AUGUST	Theory- Other Indian classical dances introduction and notation of teental. Practical- Practice of Tihaayi, Tada, Paran, Anand.
SEPTEMBER	Theory- Nritta, Nritya and Natya, Ang, upand, pratyang. Definition of kavita, avartan, pranami. Practical- Parhant of all bol and practice of toda-tukra.
OCTOBER	Theory- Shirobheda, samyakta hastmudra, other Indian classical dances. Practical- Practice of toda-tukra and parhant.
DECEMBER	Theory- Drastibheda, Notation and kaharwa tal, other Indian classical dances. Practical- Practice of kavita
JANUARY	Theory- Other Indian classical dance. Notation of bol-tadas. Practical- Practice of all bol-bandish.