SHRI MAHAPRABHU PUBLIC SCHOOL
Curriculum for the Academic Year 2022-23

CLASS : XI (SCHOLASTIC)

SUBJECT	July	August	September
ENGLISH CORE (301)	Ch-1, The Portrait of a lady Poem -1 A Photograph Ch-2, we're not afraid to die Notice Writing	Ch-3, Discovering Tut Ch-1, The summer of beautiful white horses Tenses, clauses Note Making , Letter writing, speech, Chapter -4, The address Debate	Poem -2, The Laburnum Top Poem -3, The voice of the rain Reordering of sentences Classified advertisement, poster
PHYSICS (042)	Chapter- 1 Physical world Chapter -2 Unit and measurement and practicals and activities	Chapter -3 Motion in Straight line Chapter -4 Motion in plane and practicals and activities	Chapter -5 Laws of motion Chapter- 6 Work Energy Power and practicals and activities
CHEMISTRY (043)	Some basic concepts of chemistry Experiment no. - 01 Salt analysis	2.Atomic Structure and 3.Periodic properties Experiment no.- 02 , 03 and 04 salt analysis	4.Chemical bonding Experiment no. 05 salt analysis
MATHEMATICS (041)	Chapter 1 Set Theory Chapter 2 Relation and Function	Chapter 2 Remaining portion Chapter 3 Trigonometry Function	Chapter-4 Mathematical Induction Chapter 5 Complex Number and Quadratic equation Chapter 6 Linear Inequality
BIOLOGY (044)	Chapter-01 The living world	Chapter-02 Biological Classification Chapter-03 Plant Kingdom Chapter-04 Animal Kingdom	Chapter-05 Morphology of Flowering plants. Chapter-06 Anatomy of Flowering Plants
ACCOUNTANCY (055)	Introduction to accounting, Basic terms of accounting, Theory base of accounting, Accounting Standards and IFRS.	Process of accounting and Bases of accounting, Accounting Equations and Rules of Dr and Cr, Origin of transactions and preparation of vouchers, Books of original entry- Journal, GST and journal based on GST, Cash book.	Special purpose books, Bank Reconciliation Statement, Ledger .
ECONOMICS (030)	Economics-An Introduction Meaning, scope, importance of statistics	Collection of data Organisation of data Introduction of micro economics Consumer equilibrium and demand	Producer behaviour and supply Practical session for practice (Half yearly exam)
BUSINESS STUDIES (054)	1 Nature and Purpose of Business 2 Forms of Business Organisations	2 Forms of Business Organisations 3 Public, Private and Global Enterprises	4 Business Services 5 Emerging Modes of Business

SUBJECT	July	August	September
PHYSICAL EDUCATION (048)	Unit I Changing Trends & Career in Physical Education Concept, Aims & Objectives of Physical Education Changing Trends in Sports- playing surface, wearable gears and sports equipment, technological advancements Career Options in Physical Education Khelo-India and Fit-India Program	Unit II Olympism Ancient and Modern Olympics Olympism – Concept and Olympics Values (Excellence, Friendship & Respect) Olympics – Symbols, Motto, Flag, Oath, and Anthem Olympic Movement Structure – IOC, NOC, IFS, Other members Unit III Yoga Meaning & Importance of Yoga Introduction to Ashtanga Yoga Introduction to Yogic Kriyas (Shat Karma)	Unit IV Physical Education & Sports for CWSN (Children With Special Needs-Divyang) Concept of Disability and Disorder Types of Disability, its causes & nature (Intellectual disability, Physical disability) Aim & Objective of Adaptive Physical Education Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & Special Educator)
INFORMATICS PRACTICES (065)	Unit-1: Introduction to Computers	Unit-2: Introduction to Python	Unit-2: Introduction to Python
LEGAL STUDIES (074)	Introduction to basic legal concepts	Unit 1 introduction to political institutions Concepts of state Forms of state of government	Unit 1 continued Separation of powers Revision and exam preparation
NATIONAL CADET CORPS (076)	Chapter 3 Drill ,Chapter 1 The NCC	chapter 2 National Integration chapter 1 Armed forces	Chapter 5 Military History, chapter 5 Disaster Management(introduction)

SUBJECT	July	August	September
COMPUTER SCIENCE (083)	Basic computer organisation: description of a computer system and mobile system, CPU, memory, hard disk, I/O, battery Types of software: Application software, System software and Utility software. Memory Units: bit, byte, MB, GB, TB, and PB. Number System: numbers in base 2, 8, 16 and binary addition. Number System: numbers in base 2, 8, 16 and binary addition.	Encoding Schemes : ASCII, ISCII and Unicode Concept of Compiler and Interpreter Operating System (OS) - need for an operating system, brief introduction to functions of OS, user interface Unit II: Computational Thinking and Programming - 1 Introduction to Problem solving: Problem solving cycle - Analysing a problem, designing algorithms and representation of algorithm using flowchart and pseudo-code. Familiarization with the basics of Python programming: a simple "hello world" program, the process of writing a program (Interactive & Script mode), running it and print statements; simple data-types: integer, float and string.	Features of Python, Python Character Set, Token & Identifiers, Keywords, Literals, Delimiters, Operators. ● Comments: (Single line & Multiline/ Continuation statements), Clarity & Simplification of expression ● Introduce the notion of a variable and methods to manipulate it (concept of L-value and R-value even if not taught explicitly). ● Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence. ● Operators & types: Binary operators-Arithmetic, Relational Operators, Logical Operators, Augmented Assignment Operators. ● Execution of a program, errors- syntax error, run-time error and logical error. ● Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number. ● Notion of iterative computation and control flow: for(range(),len()), while, using flowcharts, suggested programs: calculation of simple and compound interests, finding the factorial of a positive number etc. ● Strings: Traversal, operations – concatenation, repetition, membership; functions/methods–len(), capitalize(), title(), upper(), lower(), count(), find(), index(), isalnum(), islower(), isupper(), isspace(), isalpha(), isdigit(), split(), partition(), strip(), lstrip(), rstrip(), replace(); String slicing
HEALTH CARE (813)	Unit-1 (session 1 and 2)	Unit-1(session -3 and 4) , Unit -2	Employbility Skill- Unit-1 and Unit-2
HINDI CORE (302)	पाठ -1- नमक का दारोगा (गद्य) रचनात्मक लेखन- नए एवं अप्रत्याशित विषयों पर लेख	पाठ -1-कबीर (काव्य) पाठ-2- मीरा (काव्य) पाठ-2- मियाँ नसीरुद्दीन (गद्य) औपचारिक पत्र लेखन डायरी लेखन	पाठ-1- भारतीय गायिकाओं में बेजोड़ लता मंगेशकर (पूरक पाठ्य पुस्तक वितान) स्ववृत्त (बायोडाटा) लेखन शब्दकोश

SUBJECT	October	November	December
ENGLISH CORE (301)	Poem -4, Childhood Chapter -2, Mother's day Chapter -3, Birth	Poem -5, Father to son Chapter -4, The tale of melon city Chapter -7, The adventure	Ch-8, Silk road
PHYSICS (042)	Chapter - 7 System of particles and Rotational Motion. Chapter -8 Gravitation and practicals and activities	Chapter -9 Mechanical properties of solids Chapter -10 Mechanical properties of fluids And practicals and activities.	Chapter -11 Thermal properties of matter Chapter -12 Thermodynamics Practicals and activities.
CHEMISTRY (043)	Chemical Thermodynamics Experiment no. 06, 07 and 08 Titration	Chemical equillibrium Experiment no.- 09 titration	Redox reactions and GOC revision of practicals
MATHEMATICS (041)	Chapter 7 Permutation and Combination Chapter 8 Binomial Theorem	Chapter 9 Sequence and Series Chapter 10 Straight line Chapter 11 Conic Sections	Chapter 12 Introduction to 3D Chapter 13 Limits and Derivatives
BIOLOGY (044)	Chapter- 07 Structural Organization in Animals. Chapter- 08 Cell the unit of life. Chapter- 09 Biomolecules.	Chapter-10 Cell Cycle and Cell Division. Chapter-13 Photosynthesis in Higher Plants. Chapter-14 Respiration in Plants	Chapter-15 Plant Growth and Development. Chapter- 17 Breathing and Exchange of Gases Chapter- 18 Body fluid and circulation
ACCOUNTANCY (055)	Depreciation, Provisions and Reserves,	Trial Balance, Rectification of Errors , Financial Statements	Financial Statements without adjustments and with adjustments
ECONOMICS (030)	Forms of market Price determination under perfect competition market Simple application	Tabular presentation Diagrammatic presentation Graphics presentation Measure of central tendency	Measure of dispersion Measure of correlation
BUSINESS STUDIES (054)	6 Social Responsibility of Business and Business Ethics	Part B Finance and Trade 7 Sources of Business Finance	8 Small Business 9 Internal Trade
PHYSICAL EDUCATION (048)	Unit V Physical Fitness, Health and Wellness Meaning and Importance of Wellness, Health and Physical Fitness Components/Dimensions of Wellness, Health and Physical Fitness Traditional Sports & Regional Games for promoting wellness Unit VI Test, Measurement & Evaluation Concept of Test, Measurement & Evaluation in Physical Education & sports. Classification of Test in Physical Education and Sports. Test administration guidelines in physical education and sports	Unit VII Fundamentals of Anatomy, Physiology in Sports Definition and Importance of Anatomy and Physiology in exercise and sports Functions of Skeletal system, classification of bone and types of joints. Function and Structure of Circulatory system and heart. Function and Structure of Respiratory system.	Unit VIII Fundamentals of Kinesiology and Biomechanics in Sports Definition and Importance of Kinesiology and Biomechanics in sports Principles of Biomechanics Types of Body Movements – Flexion, Extension, Abduction, Adduction, Rotation, Circumduction, Supination & Pronation Axis and Planes – Concept and its application in body movements

SUBJECT	October	November	December
INFORMATICS PRACTICES (065)	Unit-2: Introduction to Python	Unit-2: Introduction to Python	Unit-3: Database Concept & SQL
LEGAL STUDIES (074)	Unit 2 Basic Features of Constitution of India Salient features of Indian constitution Administrative law	Unit 3 jurisprudence,nature and sources of law Jurisprudence, nature and meaning of law Classification of laws	Unit 3 continued Sources of law Law reforms Cyber law safety and security
NATIONAL CADET CORPS (076)	Chapter 5 Disaster Management , Chapter 2 Drill	Chapter 3 Field Craft and Battle craft , chapter 7 Health and Hygiene	Chapter 7 Health and Hygiene
COMPUTER SCIENCE (083)	● Lists: Definition, Creation of a list, Traversal of a list. Operations on a list - concatenation, repetition, membership; functions/methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), min(), max(), sum(); Lists Slicing; Nested lists; finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list. ● Tuples: Definition, Creation of a Tuple, Traversal of a tuple. Operations on a tuple - concatenation, repetition, membership; functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); Nested tuple; Tuple slicing; finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.	Dictionary: Definition, Creation, Accessing elements of a dictionary, add an item, modify an item in a dictionary; Traversal, functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted() copy(); Suggested programs : count the number of times a character appears in a given string using a dictionary, create a dictionary with names of employees, their salary and access them. ● Introduction to Python modules: Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange),	Safely accessing web sites: adware, malware, viruses, trojans ● Safely communicating data: secure connections, eavesdropping, phishing and identity verification. ● Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy. ● Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000.
HEALTH CARE (813)	Unit-3	Unit 4, Unit-5	Employability skills - Unit-3 and Unit-4 (Half session)
HINDI CORE (302)	पाठ-3- अपू के साथ ढाई साल (गद्य) पाठ-4- विदाई संभाषण (गद्य) पाठ-5- घर की याद (पद्य) कथा - पटकथा	पाठ-5- गलता लोहा (गद्य) पाठ-6- चंपा काले अक्षर नहीं चीन्हती (पद्य) पाठ-2- राजस्थान की रजत बूँदें (पूरक पाठ्यपुस्तक वितान)	पाठ-6- रजनी (गद्य) पाठ-7- जामुन का पेड़ (गद्य) पाठ-7- गज़ल (पद्य)

SUBJECT	January	February
ENGLISH CORE (301)	Revision	Revision
PHYSICS (042)	Chapter -13 Kinetic theory of gasses Chapter -14 Oscillation	Chapter -15 Waves
CHEMISTRY (043)	Hydrocarbons Revision of practicals	Revision
MATHEMATICS (041)	Chapter 14 Statistics Chapter 15 Probability	Revision
BIOLOGY (044)	Chapter -19 Excretory Products and Their Elimination. Chapter- 20 Locomotion and Movement. Chapter- 21 Neural Control and Coordination	Chapter- 22 Chemical Control and Integration. Revision
ACCOUNTANCY (055)	Project work and revision	Project work and revision
ECONOMICS (030)	Index number Revision	Revision Practice session Practical practice
BUSINESS STUDIES (054)	10 International Business Project Work (One)	Project Work (One)
PHYSICAL EDUCATION (048)	Unit IX Psychology & Sports Definition & Importance of Psychology in Physical Education & Sports Adolescent Problems & Their Management Team Cohesion and Sports Unit X Training and Doping in Sports Concept and Principles of Sports Training Training Load: Over Load, Adaptation, and Recovery	Revision
INFORMATICS PRACTICES (065)	Unit-4: Emerging Trends	Revision
LEGAL STUDIES (074)	Unit 4 judiciary : constitution,civil and criminal court	Unit 5 Family justice system Revision for final exam
NATIONAL CADET CORPS (076)	Revision	Revision

SUBJECT	January	February
COMPUTER SCIENCE (083)	Technology and society: ● understanding of societal issues and cultural changes induced by technology. ● E-waste management: proper disposal of used electronic gadgets. ● Identity theft, unique ids and biometrics. ● Gender and disability issues while teaching and using computers.	Revision
HEALTH CARE (813)	Employability skills - Unit-4 (Half session), Unit-5	Revision
HINDI CORE (302)	पाठ-8- भारत माता (गद्य) पाठ-8- हे भूख मत मचल, हे मेरे जूही के फूल जैसे ईश्वर (पद्य) पाठ-9- सबसे खतरनाक (पद्य) पाठ-10- आओ मिलकर बचाएँ पाठ-3- आलो आँधारि (पाठ्य पुस्तक वितान)	जनसंचार माध्यम एवं पत्रकारिता के विविध आयाम अभ्यास कार्य पुनरावृति