

KLE ENGLISH MEDIUM SCHOOL				
JULE SOLAPUR				
GRADE XI SYLLABUS SPLIT (2023 - 24)				
TERM I EXAMINATION				
English				
SR. NO	MONTH	UNIT/SUBUNIT	VALUES	ACTIVITIES/PROJECT
		Hornbill :		
		L-1: The Portrait of Lady	Affection ,care, nostalgia , love	
		Snapshots:		
		L-1:The Summer of the Beautiful White Horse	Honesty , believe, patriotism, culture, tradition and pride	
2	July	Writing Skill: Note making and summary	Reading with comprehension, selection of content ,organization ,numbering , intending and summarizing	Speech Writing
		Grammar:		
		Tenses and Determiners	Verb forms , Features and functions of tenses	
		Hornbill :		
		Poem 1: A Photograph	Memories, nostalgia, love and care , feeling of loss of dear one	
		L-2: We're Not Afraid to Die ... if we can be together	Courage, adventure , love and believe , perseverance	
3	August	Writing Skill:		Article writing
		Hornbill :		
		L-3: Discovering Tut :	Civilization, miracles, glory of ancient	
		Poem 2: The Laburnum Top	Beauty in nature, powerful language,	
		Snapshots:		
		L-2: The Address	Fear , sorrow , loss of dear one,	
5	October	Term1		
PHYSICS				
SR. NO	MONTH	UNIT/SUBUNIT	VALUES	ACTIVITIES/PROJECT
1	JULY	UNIT 1- physical world and measurements Chapter-2: Units and Measurements Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant	The Objective of this chapter is to make the learners aware of basic fundamentals and derived quantities of	(1)To measure diameter of a small spherical/cylindricalbody using Vernier
2	JULY	Unit II: Kinematics Chapter-3: Motion in a Straight Line Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing	The students should have scientific temper	To find the weight of agiven body using parallelogram law of vectors. Field study to see
3	AUGUST	Unit III: Laws of Motion Chapter-5: Laws of Motion Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse;	The students should have scientific temper	To study the relationshipbetween force of limitingfriction and normal reaction and to find the coefficient of friction
4	SEPTEMBER	Unit V: Motion of System of Particles and Rigid Body Chapter-7: System of Particles and Rotational Motion Centre of mass of a two-particle system,	The students should have scientific temper	Demonstration of Newton three laws ofmotion

Chemistry						
Sr.	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT		
1	JULY (18 Periods)	Unit I Some Basic Concepts of Chemistry General Introduction: Importance and scope of Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, Atomic and molecular masses, mole concept Percentage composition, empirical and chemical reactions Stoichiometry and calculations based on	To develop the scientific and mathematical skills	LAB PRACTICALS/ACTIVITIES &PROJECTS AS PRESCRIBED BY CBSE BOARD		
	JULY (20 Periods)	Unit II: Structure of Atom Discovery of Electron, Proton and Neutron, Thomson's model, Rutherford's model & Bohr's concept of shells and subshells, dual nature of De Broglie's relationship, Heisenberg Shapes of s, p and d orbitals, rules for filling Electronic configuration of atoms, stability of	To develop scientific skills disciplinary value ,			
2						
3	JULY & AUGUST (12)	Unit III: Classification of Elements and Significance of classification, brief history of the Modern periodic law and the present form of Periodic trends in properties of elements - Nomenclature of elements with atomic number	Develops social value, disciplinary value	LAB PRACTICALS/ACTIVITIES &PROJECTS AS PRESCRIBED BY CBSE BOARD		
4	AUGUST SEPTEMBER (20 Periods)	Unit IV: Chemical Bonding and Molecular Valence electrons, ionic bond, covalent bond, Lewis's structure, polar character of covalent geometry of covalent molecules, VSEPR theory, Involving s, p and d orbitals and shapes of some molecular orbital theory of homonuclear Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox	Develops social value, disciplinary value			
BIOLOGY						
Sr. No	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT		
1	JULY	Unit-I Diversity of Living Organisms Chapter-1: The Living World Biodiversity; Need for classification; three taxonomy and systematics; concept of species taxonomical hierarchy, binomial nomenclature	To develop scientific skills, disciplinary value			
2	JULY	Chapter-2: Biological Classification Five kingdom classification; Salient features Monera Protista and Fungi into major	To develop scientific skills, disciplinary value			
3	JULY	Chapter-3: Plant Kingdom Classification of plants into major groups Salient and distinguishing features and a few Bryophyta, Pteridophyta, Gymnospermae			To develop scientific skills, disciplinary value	
4	JULY	Chapter-4: Animal Kingdom Salient features and classification of animals, phyla level and chordates up	developing respect for other living beings	LAB PRACTICALS/ACTIVITIES &PROJECTS AS PRESCRIBED BY CBSE BOARD		
5	AUGUST	Unit-II Structural Organization in Animals and Plants Chapter-5: Morphology of Flowering Plants Morphology of different parts of flowering inflorescence, flower, fruit and seed.				
6	AUGUST (04 Periods) AUGUST(04 Periods) AUGUST(08 7 Periods)	Chapter-6: Anatomy of Flowering Plants Anatomy and functions of tissue systems in dicots and monocots	Appericate the body organization of both plants & animals	LAB PRACTICALS/ACTIVITIES &PROJECTS AS PRESCRIBED BY CBSE BOARD		
8	SEPTEMBER(07	Unit-III Cell: Structure and Function Chapter-8: Cell-The Unit of Life Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell cell organelles - structure and function; endoplasmic reticulum, golgi bodies, lysosomes, ribosomes, plastids, microbodies; cytoskeleton, (ultrastructure and function); nucleus.				

MATHEMATICS				
Sr. No	Month	Unit / Subunit	Values	Activity/Project
1	July	Sets	To develop the arithmetic skills	Worksheet/ Assignment
	12p	Sets and their Representation		
		Empty Set		
		Finite and Infinite Set		
		Equal Sets		
		subsets		
		Power Sets		
		Universal sets		
		Venn diagram		
		operations on sets		
		Complement of a set		
		Practical problems on union and Intersection of		
2	July	Relations and Functions	To develop disciplinary value	Worksheet/ Assignment
	14 p	Cartesian product of sets		
		Relations		
		Functions	Develops social value, disciplinary value	Worksheet/ Assignment
3	August	Complex Numbers and Quadratic Equations		
	12p	Complex Numbers		
		Algebra of complex numbers		
		The Modulus and the conjugate of a complex		
		Argand plane and Polar representation		
		Quadratic equations	Develops social value, disciplinary value	Worksheet/ Assignment
4	August	Sequence and Series		
	10	Sequences		
		Series		
		Arithmetic Progression		
		Geometric Progression		
		Relationship between A.M and G.M	Skills of handling instruments and accuracy. Develops concentration skills	Worksheet/ Assignment
		Sum to n terms of special series		
5	Sept	Straight Lines		
		Slope of a line	Develops concentration skills,attention and social values	Worksheet/ Assignment
		Various forms of the equation of a line		
		General equation of a line		
		Distance of a point from a line	Develops concentration skills,attention and social values	Worksheet/ Assignment
6	September	Limits		
		Limits		
		Limits of trigonometric ratios	Develops concentration skills,attention and social values	Worksheet/ Assignment
7	Sept	Statistics		
		Measures of dispersion		
		Range		
		Mean Deviation		
		Variance and Standard deviation		
		Analysis of Frequency Distributions		
COMPUTER SCIENCE				
Sr. No	Month	Unit / Subunit	Values	Activity/Project
1	July	Computer System	To develop basic knowledge of computers	Practical based on basics of Computers
		Introduction to Computer System		
		Evolution of Computer		
		Computer Memory		
		Data Transfer between Memory and CPU		
		Microprocessors		
		Data and Information		
		Software		
		Operating System		
2	July	Encoding Schemes and Number System	To understand the concept of Encoding and Decoding	Activity based on Encoding and Decoding concept
		Introduction		
		Number System		
		Conversion between Number Systems	Develop how to work with new trends in technology	ATAL Lab
3	August	Emerging Trends		
		Introduction		
		Artificial Intelligence (AI)		
		Big Data		
		Internet of Things (IoT)		
		Cloud Computing		
		Grid Computing	Develops skill of problem solving using Algorithms	Drawing flow chart and Algorithm for program
		Blockchains		
4	August	Introduction to Problem Solving		
		Introduction		
		Steps for Problem Solving		
		Algorithm		
		Representation of Algorithms		
		Flow of Control		
		Verifying Algorithms	Develop Programming Language Skills	Practical based on creating web pages
		Comparison of Algorithm		
		Coding		
		Decomposition		
5	September	Getting Started with Python		
		Introduction to Python		
		Python Keywords		
		Identifiers		
		Variables		
		Comments		
		Everything is an Object		
		Data Types		
		Operators		
		Expressions		
		Statement		
		Input and Output		
		Type Conversion		
		Debugging		
		Introduction		
		Strings		
		String Operations		
		Traversing a String		
		String Methods and Built-in Functions		
		Handling Strings		

INFORMATION TECHNOLOGY				
SR.	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT
1	July	COMPUTER ORGANIZATION	Computer and its use ☐ Characteristics of computer ☐ Components of computer ☐ Block diagram of computer ☐ Processes of Components of computer ☐ Block	Practical based on basics of Computers
		Understand and appreciate fundamentals of Computer and its characteristics	diagram of computer ☐ Processes of task execution ☐ steps of process execution ☐ function of various	
		Understand the components of computer	computer ☐ appreciate function and use of I/O devices ☐ learn about various storage devices used in	
		Understand Operating System ☐ introduction to Operating System and its need ☐ functions of operating system ☐ types of operating system ☐ difference between various operating systems	storage	
2	July	NETWORKING AND INTERNET		
		Understand Computer Networking	Telephone Network standard (technology used in each generation)	Activity based on Encoding and Decoding concept
		To understand Internet and its terminology		
		Conversion between Number Systems		
3	August	OFFICE AUTOMATION TOOLS	☐ introduction work with Word processing applications like Open Office, understanding varioustabs like File, Edit, Insert, View and their submenu options to format a document using OpenOffice Writer.	Start a new document. ☐ Open an existing document. ☐ Save a document. ☐ Close a document. ☐ Use the Navigator.
		Word processor	learn to install an open source spreadsheet software like Calc ☐ learn components of the Spreadsheet title	Start a new document. ☐ Open an existing document. ☐ Save a document. ☐ Close a document. ☐ Use the Navigator.
		Spreadsheets	spreadsheets ☐ learn to work, save and close spreadsheets ☐ work with data, move data, use edit menu ☐ Use	demonstration of components of the Spreadsheet window. ☐ demonstration and hands on to insert formulae and use inbuilt functions efficiently ☐ make charts using chart tools in spreadsheet ☐
		Powerpoint ☐	introduction to presentation software ☐ start openOffice Impress ☐ overview of OpenOffice ☐ study of various tabs of OpenOffice ☐ understand various views of	the students will be able to work with presentation software