	KLE ENGLISH MEDIUM SCHOOL JULE SOLAPUR GRADE- XII SYLLABUS SPLIT 2023-24 TERM -I EXAMINATION					
	SUBJECT: ENGLISH					
C m	Month	Unit / Sub Unit	Values	Project / Activity		
No	Month	omt/sub-omt	Values	Toject/ Activity		
		Flamingo :				
		L-1 : The Last Lesson	Patriotism, resistance, importanceof culture and love for language			
		L -2 : Lost Spring	Awareness about child labour, impact of tradition and blind belief,stop corruption			
		1.My Mother at Sixty Six (Poem)	connecting with real life experiences, love and care for mother	Group Disscussion on softskills		
1	April	3.Keeping Quiet (Poem)	Introspection of oneself in silence			
		Vistas:				
		L-1: The Third Lvel	Impact of wars and insecurity need to reduce, importance of harmony and peace in society			
		Writing Skill: 1. Letter (Application for job with resume and letter Editor)	Use of official and formal language, politeness, Curiosity, Social Awareness, Use of appropriate Formats. Expression of thoughts in precise manner.	Letter writing in given format		
		2.Notice	Organisation of ideas , content and accuracy of spelling and grammar.	Notice writing in format		
		Flamingo :				
2	June	L-3 Deep Water	Will power, Determination, Drawing inspiration from the real life examples to help the learners to deal with emotions psychologically	Write an article We do not inherit the earthfrom our		
		Vistas:		ancestors, we borrow it from our		
		L-2: The Tiger King	Education can give them a better status, Courage and positive outlook	children.		
		Writing Skill: Formal / Informal Invitation and reply	Organisation of ideas , use of approprite format, Expression of thoughts	Writing informal and formal invitaions		
		Flamingo :				
		L-4: The Rattrap	Affection , Belief , Cheating, Fraud, honesty,threatening, presence of mind, humanity			
3	July	Vistas:		Replies to invitations		
		L-3 : Journey to the End of the Earth	Humanity, appreciationa and compassion for the environment			
		Writing Skill: Article Writing	Expression of knowledged,			
		Flamingo :				
		L-5: Indigo	Euality, brotherhood, liberty and fight against injustice			
4	August	Vistas:		Article writing		
		L-4:The Enemy	patriotism, honesty, resistence, importance of culture and love for language			

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		rianingo :		
		L-6: Poets and Pancakes	appreceation of humaour and satire	
		Poem 3: A Thing of Beauty	Love and appreciate beauty	
5	September			Art Integrated Project
		Writing Skill: Report writing	Investigation, evaluation , development of writing skills , professional advancement	
6	October	Flamingo: L-7: The Interview	Process of interview, merits and demerits of interview and attitude	
		Poem 4: A Roadside Stand	simple life of village and luxurious	
		PHYSICS		l
Sr.N	Month	Unit/Subunit	Values	Activities/Projects
0				
1	APRIL/JUNE	Chapter–1: Electric Charges and Fields Electric charges, Conservation of charge, Coulomb's law- force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge CHAPTER-2: Electrostatic potential and capacitance Electric potential differences, equipotentialsurfaces,	The students should have scientific temper	Lab activity
		conductors and insulators. Dielectric and polarization.		
		Capacitor and capacitance.	The students should have a similar	I alta antiación
2	JUNE/JULY	Chapter-3: Current Electricity Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current. Ohm's law, V-I characteristics, electrical energy and power, electrical resistivity andconductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge. Chapter-4:Moving charges and magnetism-Biot- savarts law,oersted'sexperinment. Amperes's law force on a current carrying conductor, current loop. Chapter-5: Magnetism and Matter	The students should have scientific	Lab activity
3	JULY/AUGUST	Bar magnet, bar magnet as an equivalent solenoid, magnetic field intensity due to a magnetic dipole along its axis and perpendicular to its axis, torque on a magnetic dipole in a uniform magnetic field , magnetic field lines. Magnetic substances with examples, Magnetization of materials, effect of temperature on magnetic properties. <b>Chapter-6: Electromagnetic Induction</b> Electromagnetic induction; Faraday's laws, inducedEMF and current; Lenz's Law, Self and mutual induction	temper	
5	SEPTEMBER	Chapter-7:Alternating current – Peak and RMS value of AC and voltage; LCR series circuit, resonance, power, transformer,phasors.	The students should have scientific temper	Lab activity

	CHEMISTRY				
Sr.					
NO	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT	
1	APRIL (15 PERIODS)	Unit 1: Solutions Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular	To develop the scientific and mathematical skills		
2	JUNE (15 Periods)	Unit VI: Haloalkanes and Haloarenes. Haloalkanes: Nomenclature, nature of C-X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. Haloarenes: Nature of C-X bond, substitution	Develops Scientific skills	LAB PRACTICALS/A CTIVITIES &PROJECTS AS PRESCRIBED BY CBSE	
3	JUNE & JULY (12 Periods)	Unit II: Electrochemistry Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations	To develop the scientific and mathematical skills	BOARD	
4	JULY (12 PERIODS)	Unit VII: Alcohols, Phenols and Ethers Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols,	Develops Scientific skills	LAB PRACTICALS/A CTIVITIES &PROJECTS AS PRESCRIBED BY CBSF	
5	JULY &AUGUST (15 Periods)	<b>Unit III CHEMICAL KINETICS</b> Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant,	To develop the scientific and mathematical skills	BOARD	
		BIOLOGY			
SR.	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT	
NU		UNIT VI:Reproduction			
1	APRIL (08 Periods)	Chapter-2: Sexual Reproduction in Flowering Plant Flower structure; development of male and female gametes pollination - types, agencies and examples; out breeding devices; pollen-pistil interaction; double post fertilization events - development of endosperm , development of seed and formation of fruit special modes- apomixis, parthenocarpy, polyembry Significance of seed dispersal and fruit formation	To develop scientific skills disciplinary value		
2	APRIL (08 Periods)	Chapter-3: Human Reproduction         Male and female reproductive systems         microscopic anatomy of testis and ovary         gametogenesis -spermatogenesis and oogenesis,         fertilisation, embryo development upto blastocyst for         implantation; pregnancy and placenta formation         parturition, lactation         Chapter-4: Reproductive Health         Need for reproductive health and prevention of STDE	Develops social value, disciplinary value	LAB PRACTICALS/ ACTIVITIES &PROJECTS AS PRESCRIBED BY CBSEBOARD	
3	APRIL &JUNE (10 Periods)	birth control - need and methods contraception and medical termination of pregnancy amniocentesis; infertility and assisted reproductive techique like IVF, ZIFT, GIFT	Develops social value, disciplinary value		
		Unit-VII Genetics and Evolution Chapter-5: Principles of Inheritance and Variation Heredity and variation: Mendelian inheritance deviations from Mendelism - incomplete dominance co-dominance, multiple alleles and inheritance			

		pleiotropy; elementary idea of polygenic inheritance		
4		chromosome theory of inheritance; chromosomes		
		Sex determination - in humans, birds and honey bee		
	JUNE	linkage and crossing over; sex linked inheritance - ha	To develop scientific skills	5,
	(10 Periods)	colour blindness, Mendelian disorders in humans	disciplinary value	
		chromosomal disorders in humans; Down's syndrome		
		Turner's and Klinefelter's syndromes		
-		Chapter-6: Molecular Basis of Inheritance		
		Search for genetic material and DNA as genetic mater	7	
		Structure of DNA and RNA; DNA		
_	IULY	packaging, DNA repliciation		LAB PRACTICALS/
5	(12 Periods)	Central Dogma; transcription, genetic code	To develop scientific skills,	ACTIVITIES &PROJECTS
	,	genome expression and regulation -lac operon,Genom		ASPRESCRIBED
		Human and rice genome projects; DNA fingerprinting	7	BY CBSEBOARD
				-
		Chapter-7: Evolution		
		Origin of life; biological evolution and evidences for b		
		evolution(paleontology,comparative anatomy, embry		
	JULY (12 Periods)	evidencesDarwin's contribution, modern synthetic th	7	
		mechanism of evolutionn - variation (mutation and re	To develop scientific skills, disciplinary	
6		natural selection with examples, types of natural sele		
		Gene flow and genetic drift; Hardy - Weinberg's princ		
		adaptive radiation; human evolution.	Value	
		Unit-VIII Biology and Human Welfare		
		Chapter-8: Human Health and Diseases		
		Pathogens; parasites causing human diseases(malaria		
7	SEPTEMBER	chikungunya, filariasis, ascariasis, typhoid, pneumonia,	To develop scientific skills,	LAB PRACTICALS/
ĺ ĺ	(15Periods)	and their control; Basic concepts of immunology - vac	disciplinary	ACTIVITIES
		cancer, HIV and AIDS; Adolescence - drug and alcohol	value	&PROJECTS AS
				PRESCRIBED
				BY CBSEBOARD
<u> </u>		Chantor-10: Microbos in Human Wolfara	To dovelop acceptific al-illa	
		Microbes in food processing industrial production	To develop scientific skills, disciplinary value	
8	SEPTEMBE	microbes in roou processing, muusurar production,		
ð	(12Periods)	sewage treatment, energy generation and microbes as		
1		and bio-fertilizers. Antibiotics; production and judicio		

	MATHEMATICS				
SR	MONTH	UNIT / SUBUNIT	VALUES		
NO				ACTIVITY/PRO JECT	
1	April	Relations and Functions			
	14 PERIODS	Types of relations		Work sheet /Assignment	
		Types of functions	To develop disciplinary value	worksheet/hssighiliene	
		Composition of Functionsand invertible functions			
		Binary operations			
2	April	Matrices			
	10PERIODS	Matrix	Develops social value, disciplinary		
		Types of Matrices		Work sheet /Assignment	
		Operations on Matrices		work sheet/hssighiliene	
		Transpose of a matrix	value		
		Symmetric and skew symmetric Matrices			
		Elementary operation of a matrix			
		invertible matrices			
3	June	Determinants			
	10 PERIODS	Determinants			
		Properties of determinants	Develops social value, disciplinary value	Work sheet/Assignment	
		Area of a triangle			
		Minors and Cofactors			

		Adjoint and Inverse of a matrix		
		Applications of Determinats and Matrices		
4	June 9 PERIODS	Inverse Trigonometric functions	Skills of handelling instruments and accuracy. Develops concentration	Work sheet/Assignment
		Basic concepts	skills	
		Properties of inverse trigonometric functions		
5	July	Continuity and Differentiability		
	9 PERIODS	Continuity		
		Differtiability		Work sheet/Assignment
		Exponential and Logarithmic functons	Develops concentration	
		Logarithmic Differentiation	skills,attention and social values	
<u> </u>		Derivatives of functions in parametric forms		
		Second order derivatives		
		Mean value theorem		
6	Iuly/August	Application of Derivatives		
-	10 PERIODS	Rate of change of quantities		
		Increasing and decreasing functions		Work sheet/Assignment
			Develops concentration skills	
		Tangents and Normals		
		Approximations		
		Maxima and Minima		
		PHYSICAL ED	UCATION	
SR. NO	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT
		Management of Sporting Events		
		Various Committees & their Responsibilities (pre; dur		
		Fixtures and its Procedures - Knock-Out (Bye & Seedi		
		Children & Women in Sports		
		Legs; Flat Foot; Round Shoulders; Lordosis, Kyphosis,		Make a Fisture of knock out
1	A	and Scoliosis and their corrective measures		system
1	Aprii	Special consideration (Menarche & Menstrual Dysfun	To develop management skin	
		Female Athletes Triad (Osteoporosis, Amenorrhea, Ea		
		Yoga as Preventive measure for Lifestyle Disease		
		Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Payanmuktasana,		
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		Obesity: Procedure, Benefits & Contraindications for Tadasana, Katichakrasana, Pavanmuktasana, Matsayasana, Halasana, Pachimottansana, Ardha – Matsyendrasana, Dhanurasana, Ushtrasana, Suryabedhan pranayama.		
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l	Advantages of Physical Activities for children with sp
	Strategies to make Physical Activities assessable for c

3	July	Sports & Nutrition Concept of balance diet and nutrition Macro and Micro Nutrients: Food sources & functions Nutritive & Non-Nutritive Components of Diet	Develops knowledge about nutrition	Make a chart on Nutrition
4	August	Test & Measurement in Sports         Fitness Test - SAI Khelo India Fitness Test in school:         Age group 5-8 yrs/ class 1-3: BMI, Flamingo Balance         Age group 9-18yrs/ class 4-12: BMI, Somt Speed         test,         Computing Basal Metabolic Rate (BMR)         Rikli& Jones - Senior Citizen Fitness Test         I. Chair Stand Test for lower body strength         II. Arm Curl Test for upper body strength         III. Chair Sit & Reach Test for lower body flexibility         IV. Eagk Scratch Test for upper body flexibility         V. Eight Foot Up & Go Test for agility         VI. Six Minute Walk Test for Aerobic Endurance	Knowledge about test and measurement	Project on test and measurement

	COMPUTER SCIENCE				
SR. NO	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PRO JECT	
1	April	Review of Python Basics Python tour 1 covered in Class XI	Develops IT skills	Lab activities	
2	June	Review of Python Basics Python tour 2 covered in Class XI	Develops IT skills Develops Problem solving skill Develops Pragramming skill	Lab activities	
3	July	Functions         •       Functions: types of function (built-in functions, functions defined in module, user defined functions)         •       Creating user-defined function         •       Arguments and parameters, default parameters, positional parameters •Function returning value(s)         •       Flow of execution         •       Scope of a variable (global scope, local scope)	Develops Problem solving skill Develops Pragramming skill	Lab activities	
4	August	Data File Handling <ul> <li>Introduction to files</li> <li>Text file</li> <li>Binary file</li> <li>CSV file</li> </ul> Program Efficiency Performance Measurement in terms of the number of operations	Develops Programming skill	Lab activities	
5	September	Data Structures in Python         Stack:       Operation on stack (push & pop),         implementation of stack using list.         Computer Networks         • Evolution of networking         • Data communication terminologies         • Transmission media         • Network devices         • Network topologies and Network types         • Network protocol         • Introduction to web services	Develops IT skills	Lab activities	