## KLE ENGLISH MEDIUM SCHOOL

## **JULE SOLAPUR**

## GRADE- XII SYLLABUS SPLIT 2023-24

## PERIODIC TEST - II AND CBSE BOARD EXAM

MATHEMATICS  MATHEMATICS					
SR. NO	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT	EXAM
	April	Relations and Functions	To develop disciplinary value	Work sheet/Assignment	
		Types of relations			
1		Types of functions			
		Composition of Functionsand invertible functions			
		Binary operations			
	April	Matrices	Develops social value, disciplinary value	I Work sheet/Assignment I	
		Matrix			
		Types of Matrices			
2		Operations on Matrices			
2		Transpose of a matrix			
		Symmetric and skew symmetric Matrices			
		Elementary operation of a matrix			
		invertible matrices			
	June	Determinants	Develops social value, disciplinary value	Work sheet/Assignment	
		Determinants			
2		Properties of determinants			
3		Area of a triangle			
		Minors and Cofactors			
		Adjoint and Inverse of a matrix			
		Applications of Determinats and Matrices			

4	June	Inverse Trigonometric functions	Skills of handelling instruments and accuracy. Develops concentration skills	Work sheet/Assignment	
		Basic concepts			
		Properties of inverse trigonometric functions			
5	July	Continuity and Differentiability	Develops concentration skills,attention and social values  Work sheet	Work sheet/Assignment	
		Continuity			
		Differtiability			
		Exponential and Logarithmic functions			
		Logarithmic Differentiation			
		Derivatives of functions in parametric forms			
		Second order derivatives			
		Mean value theorem			
	July/August	Application of Derivatives	Develops concentration skills	Develops concentration skills Work sheet/Assignment	
		Rate of change of quantities			
6		Increasing and decreasing functions			
6		Tangents and Normals			
		Approximations			
		Maxima and Minima			
	August/September	Integration as an inverse process of	Develops concentration skills Work shee	Work sheet/Assignment	
		Methods of integration			PERIODIC TEST -II
		Integrals of some particular functions			
7		Integration of Partial Fractions			
		Definite Integral			
		Fundamental Theorem of Calculas			
		Evaluation of Definite Integrals by substitution			
		Some properties of Definite Integrals			
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8	October	Applications of Integrals	Develops concentration skills	Work sheet/Assignment	
		Area under Simple curves			
		Area between Two curves			
9	December	Three dimensional geometry	Develops concentration skills. Develops recreational values  Work sheet/A	World about Assistance	
		Direction of cosines and Direction Ratios of a line			
		Equation of a line in Space			
		Angle between Two lines			
		Shortest distance between 2 lines			
		Plane		WOIK SHEET/ASSIGNMENT	
		Coplanarity of 2 lines			
		Angle between 2 Planes			
		Distance of a point from a plane			
		Angle between a line and a plane			
	November	Differential Equations	Develops concentration skills. Develops recreational values  Work sheet/Assignment	Work sheet/Assignment	PERIODIC TEST -II
10		Basic concepts			
		General and particular Solutions of a Differential			
		Formation of a Differential Equation whose General		Č	
		Methods of Solving First order, First degree			
	November	Vector Algebra	Develops concentration skills. Develops recreational values	Work sheet/Assignment	PERIODIC TEST -II
		Some basic concepts			
11		Types of vectors			
		Addition of Vectors			
		Multiplication of a vector by a scalar			
		Product of 2 vectors			
	December	Linear programming	Develops concentration skills Work sheet/Assignment		
12		Linear programming problem and its Mathematical Formulation		Work sheet/Assignment	
		Different types of Linear programming problems			

13		Probability	Develops concentration skills and logical thinking	Work sheet/Assignment	
		Conditional Probability			
		Multiplication theorem on probability			
		Independent Events			
		Baye's Theorem			
		Random variables and it's probability Distributions			
		Bermoulli trials and Binomial distribution			
Jan/ Feb		REVISION OF ALL THE CHAPTERS FROM 1 TO 13 FOR THE CBSE BOARD EXAM			