Shri Gujrati English Medium Hr. Sec. School

Class- XII A
Subject- Mathematics(041)
Teacher's Name-Dr. Badri Vishal Padamwar

Lesson plan for the month-July 2020

Week	Chapter/Topic	Learning outcomes	Resources	Activity	Inculation of art integration
!st week	Differentiability	(1)Concept of exponential & logarithmic functions.	NCERT Book, NCERT Examplar Book, Chalk, Duster, Desktop, Wifi Connection.	(1)Derivatives of exponential & logarithmic functions.	
2ns week	Differentiability	(1)Derivatives of the functions expressed in parametric firm, 2nd order derivatives, Rolle's & Mean value theorem.	NCERT Book, NCERT Examplar Book, Chalk, Duster, Desktop, Wifi Connection.	(1)Concept of 2nd order derivative. (2)Rolle's & Legranges Mean Value Theorem & their geometric interpretation.	
3rd week	Application of derivatives (Increasing & decreasing functions)	(1)Concept of Increasing & Decreasing Functions and their graphical representations. (2)Finding the interval in which the given function is increasing or decreasing.	NCERT Book, NCERT Examplar Book, Chalk, Duster, Desktop, Wifi Connection.	(1)f is strictly increasing in (a, b) if f'(x)>0 for each xϵ(a, b). (2)f is strictly decreasing in (a, b) if f'(x)>0 for each xϵ(a, b).	
4th week	Application of Derivatives (Maxima & Minima)	(1)Concept of Maxima & Minima of a function and its graphical representations. (2)General method of finding Maxima & Mainima. (3)Methof of finding Maxima & Minima using 1st derivative test.	NCERT Book, NCERT Examplar Book, Chalk, Duster, Desktop, Wifi Connection.	(1)Application problems absed on finding Maxima & Minima of a function. (2)Problems based on 1st derivative test.	