

## **Shri Gujrati English Medium Hr. Sec. School**

Class- XII A

Subject- Mathematics

Teacher's Name-Dr. Badri Vishal Padamwar

### Lesson plan for the month- June 2020

| Week                 | Chapter/Topic  | Learning outcomes  | Resources   | Activity  | Inculation of art integration |
|----------------------|--|--|---|---|-------------------------------|
| 1 <sup>st</sup> week | Revision of Inverse Trigonometric Functions & Matrices | <p>(1)Observe the behaviour of inverse trigonometric functions through graphical representations.</p> <p>(2)To be able to understand how to restrict the domain &amp; co-domain of trigonometric function to make them bijective function to define their inverses.</p> <p>Concept of elemantry Row &amp; Column operations.</p> <p>(3)Method of finding the inverse of matrices if exist using elementary operations.</p> | NCERT Book, NCERT Exemplar Book, Chalk, Duster, Desktop, Wifi Connection. | Previous 5 years question papers.   |                               |
| 2 <sup>nd</sup> week | Revision of Matrices & Determinants                    | <p>(1)Expansion of determinants, properties , minor &amp; co-factor, adjoint of matrix.</p> <p>(2)Application of determinants&amp; matrix.</p> <p>(3)Solution of system of linear equation <math>AX=B</math>by using <math>X=A^{-1}B</math>.</p> <p>Concept of elemantry Row &amp; Column operations.</p> <p>(4)Method of finding the inverse of matrices if exist using elementary operations.</p>                        | NCERT Book, NCERT Exemplar Book, Chalk, Duster, Desktop, Wifi Connection. | Previous 5 years question papers.   |                               |
| 3 <sup>rd</sup> week | Continuity   | <p>(1)Continuity &amp; differentiability</p> <p>(2)Derivative of composite function &amp; chain rule</p>   | NCERT Book, NCERT Exemplar Book, Chalk, Duster, Desktop, Wifi Connection. | <p>(1)Some practical problems based on Continuity.</p> <p>(2)Basic formulas of differetiation &amp; differentiation of composite function &amp; chain rule.</p> |                               |
| 4 <sup>th</sup> week | Continuity   | (1)Derivative of Inverse Trigonometric functions & implicit functions.   | NCERT Book, NCERT Exemplar Book, Chalk, Duster, Desktop, Wifi Connection. | (1)Differentiation of Inverse Trigonometric Functions.  |                               |