

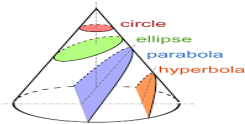


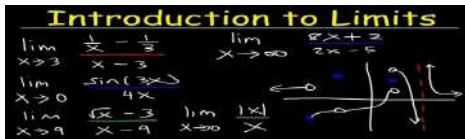



SYLLABUS 2022-23

SUBJECT MATHEMATICS		CLASS XI	
TERM I			
MONTH	TEXT BOOK - TOPIC	E LIBRARY TOPIC	ACTIVITY PROJECT/READING/ASL
APRIL			
MAY			
JULY	Sets, Relation and functions	Sets, Relation and functions	To find the number of subsets of a given set and verify that if a set has n number of elements, then the total number of subsets is 2^n .
AUGUST	Trigonometry, Complex Number	Trigonometry, Complex Number	To verify the relation between the degree measure and the radian measure of an angle.
SEPTEMBER	Linear inequality, permutations and combinations, Sequence and series	Linear inequality, permutations and combinations, Sequence and series	To verify that the graph of a given inequality, say $5x + 4y - 40 < 0$, of the form $ax + by + c < 0$, $a, b > 0$, $c < 0$ represents only one of the two half planes.
TERM II			
OCTOBER	Straight Line, Conic sections, Introduction of three dimensional geometry	Straight Line, Conic sections, Introduction of three dimensional geometry	To verify that the equation of a line passing through the point of intersection of two lines $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ is of the form $(a_1x + b_1y + c_1) + \lambda(a_2x + b_2y + c_2) = 0$.
NOVEMBER	Limit and derivatives, statistics	Limit and derivatives, statistics	To demonstrate that the Arithmetic mean of two different positive numbers is always greater than the Geometric mean.
DECEMBER	Probability	Probability	To write the sample space, when a die is rolled once, twice -----

<p>JANUARY</p>	<p>Revision of all chapters</p>	<p>Revision of all chapters</p>	
<p>FEBRUARY</p>	<p>Revision of all chapters</p>	<p>Revision of all chapters</p>	