Subject-Maths

S.NO	MONTHS	TOPIC	LEARNING OUTCOMES
1	June	Sets, Relation and function	After studying this lesson students can . l.define sets and recognize examples of sets. 2.perform the operations of union, intersection ,complement and difference on sets using proper relation. 3. Be able to draw and interpret Venn diagrams of set relations and operations and use Venn diagram to solve problems. 4. Identify the differences between a relation and a function. 5. Find the domain and range of a relation. 6. .Find the domain and range of a function.
2	July	Trigonometry, complex number and quadratic equation, Binomial Theorem	After studying this lesson students can: 1. work out complex angles and dimensions in relatively little time. 2.understand how trigonometric functions relate to right triangles and solve word problems involving right triangle. 3.they can prove different trigonometric identities, 4.they can understand the concept of complex number. 5. Identify real and imaginary parts of a complex number, 6.evaluate square root of a negative numbers. 7.find the modulus of a complex number. 8.use the Binomial theorem to expand polynomials, and to identify terms for a given polynomial. 9.they can find constant term independent term, coefficient in any binomial expression
3	August	Permutation and combination , Straight lines	After studying this lesson students can: 1. define factorial notation. 2.they can define and understand the difference between permutation and combination. 3.they can apply the result of permutation and combination to solve problems on digits and words.

			4.they can solve the problems on formation of committee. 5.1dentify and apply the properties of lines and angles. 6.they can know the point slope form, slope intercept form, intercept form ,two point form of a line, perpendicular form of a line. 7.they can find the angle between two lines. 8.they can find the relation between slope of a perpendicular and parallel lines. 9..find the perpendicular distance of a point from a line.
4	September	Linear inequality	After studying this lesson students can: 1.Able to solve one-step inequalities that involve Addition, subtraction ,multiplication and division. 2.also be able to graph solution sets for one-step inequalities and interpret solutions within the context of a problem.
5	October	Sequence and Series,AP,GP.	After studying this lesson students can: l.they know the difference between sequence and series. 2.they can find nth term and sum to n terms of AP and GP. 3.they can solve problems related to AP based on real life situation. 4.they can insert n arithmetic and n geometric mean between any two quantities.
6	November	Limits and derivatives ,three dimensional geometry	After studying this lesson students can: 1. define limits and derivatives. 2.they can evaluate algebraic and trigonometrical limits. 3.they can differentiate different types of the function. 4.they know about 3D coordinate system 5.they can use distance and section formula
7	December	Conic sections	After studying this lesson students can: l.know the general and standard equation of a circle and solve various problems. 2.find standard equation of parabola , ellipse and hyperbola and solve various problems.
8	January	Statistics	After studying this lesson students can: 1. find mean deviation and standard deviation