D.M.PUBLIC SCHOOL

PARSIA, PUTKI, DHANBAD

Fortnightly Syllabus Planning (2024-25)

Class: X

Subject: MATHS

New Session begins on 4th April, 2024			
Sl No	**Duration**	**No of Teaching Days**	**Syllabus to be covered**
1	5th April - 15th April	12.	**UNIT:- NUMBER SYSTEM** **REAL NUMBER** **Introduction, Fundamental theorem of arithmetic. Statements after reviewing work done earlier.**
2	16th April – 30th April	13.	**Proofs of irrationality of √2, √3, √5 etc.** **UNIT-II – Polynomial: -** **Zeros of a polynomial, Relationship b/w zeroes and co-efficient.** **Introduction to trigonometry: - Trigonometry ration of an acute angle of rights.** **Proof of their exitance.**
3	1st May – 15th May		**Value of the T-Ratios of 30◦,45◦,60◦,90◦** **Relationship b/w the ratio.** **Pair of linear Equations of two variables** **Graphical Method of their solution, consistency / inconsistency.**
4	16th June – 30st June		**Algebraic conditions for number of solutions. Solutions of pair of linear equations by substitution, by eliminations. Simple situational problems.**
6	10th July – 31th July		**ARITHMETIC PROGRESSIONS** **Motivation for studding A.P.** **Derivation of the Nth term and sum of the first N terms of A.P and their application in solving daily life.**
7	1st Aug – 15th Aug		**TRIANGLES: - Definitions, examples, counters examples of similar triangles.** **1. Prove basic proportionality theorem.** **2. (Motivate) if a line devices two sides of a Δ in the same ratio the line is parallel to the third side.** **3. If in two Δs, the corresponding angles are equal their corresponding sides are proportional and triangles are similar.**

8	16th Aug – 31st Aug		**STATISTICS:- Mean, Median and mode of grouped data.**
9	1st Sep – 12th Sep		**QUADRATIC EQUATIONS:- Standard form of quadratic equations** **$Qx^2+bx+c=0(q\neq0)$ solutions of quad. Equations by factorization method and by using quad formula. Relationship b/w discriminant and nature of roots.** **application questions.**
10	**13st Sep– 1th Oct - MID TERM EXAMINATION**		
11	2st Oct – 15th Oct		**Co-ordinate Geometry introduction to co-ordinate geometry basic concept of graph. Graph of linear equations. Distance formula. Section formula.** **Application questions**
12	16th Oct – 31st Oct		**TRIGONOMETRIC IDENTITIES** **Proof and application of the identities only simple identities to be given.**
13			**Heights and Distance: -** **Basic concept of angle of elevation, Depression, simple problems on height and distances problems should not involve more than two right Δ.**
14	1st Nov – 15th Nov		**PROBABILITY:-** **Basic concept classical definition of probability. Simple problems on finding the probability of an event.** **Areas related to circle :- Basic concept area of sectors and segment of a circle.** **Problems based on areas and perimeter / circumference of the above said plane fig.**
15	16st Nov – 30th Nov		**Surface areas and volumes:-** **Surface areas and volumes of combinations of any two of the following :- Cubes, cuboids, sphere ,hemispheres and right circular cylinders/ cones.**
16	11th Dec – 24st Dec		**CIRCLES:-** **Tangent to a circle at point of concept.** **C.B.S.E Sample paper solving.**
17	3st Jan – 15th Jan		
18	16th Jan – 31st Jan		

19	1st Feb – 15th Feb		
20	**20th Feb to 8th March: Annual Examination**		

Portion For Assessments

Assessment	Portion
PRE MID TERM (PT 1)	REAL NUMBERS , POLYNOMIALS , PAIR OF LINIEAR EQUATIONS IN TWO VARIABLE , **Introduction to trigonometry, Value of the T-Ratios of 30◦,45◦,60◦,90◦** **Relationship b/w the ratio.**
MID TERM	REAL NUMBERS , POLYNOMIALS , PAIR OF LINIEAR EQUATIONS IN TWO VARIABLE , **Introduction to trigonometry, Value of the T-Ratios of 30◦,45◦,60◦,90◦** **Relationship b/w the ratio.** **TRIANGLES, A.P, STATISTICS**
PRE BOARD	**REAL NUMBERS , POLYNOMIALS , PAIR OF LINIEAR EQUATIONS IN TWO VARIABLE** , **INTRODUCTION TO TRIGONOMETRY, VALUE OF THE T-RATIOS OF 30◦,45◦,60◦,90◦** **RELATIONSHIP B/W THE RATIO.** **TRIANGLES, A.P, STATISTICS , QUADRATIC EQUATIONS , CIRCLE, SURFACE AREAS AND VOLUMES, AREAS RELATED TO CIRCLE , PROBABILITY, TRIGONOMETRIC IDENTITIES, HEIGHTS AND DISTANCE CO-ORDINATE GEOMETRY**
ANNUAL	