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| **LESSON PLAN OF MATHEMATICS DEPT.** |
| **Name Of College: Govt College Rithoj, Gurugram,** **Academic Session :2024-25** **Semester: Even, (Feb 2025 to May 2025)** **Name of Teacher: Dr. Kusum Saharan****Subject: Numerical Ability Enhancement Skills (SEC)****Class: B.A IInd SEMESTER** |
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 **February 2025**

**Real number system, operations on numbers, Test for Divisibility of natural numbers, Decimal, fractions, square roots and cube roots, surds and indices, use of Bodmas.**

**March 2025**

**HCF, LCM of the integers, Ratio and proportion , Progression: Arithmetic progression, Geometric progression and Harmonic progression with their simple and basic applications, Number series completion.**

**April 2025**

**Percentage, Profit and Loss , allegation or mixture, Average and average speed problems Calendar.**

**May 2025**

**Logarithm, Area of Quadrilateral (parallelogram, square , rectangle, rhombus and Trapezium) Volume and surface area of cube ,cuboid , cylinder, Cone, Sphere and Hemisphere.**

**Course Learning Outcomes (CLOs):**

After completing this course, the learner will be able to:

1. Understand real number system, fundamental arithmetical operation and use of BODMAS.
2. Attain the Knowledge of ratio, proportion, A.P, G.P and H.P series.
3. Evaluate percentage, profit and loss and average speed problem.
4. Understand logarithm, area and volume of certain figures.

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| **Name Of College: Govt College Rithoj, Gurugram,** **Academic Session :2024-25** **Semester: Even, (Feb 2025 to May 2025)** **Name of Teacher: Dr. Kusum Saharan****Subject: Essential Mathematics (MDC)****Class: B.A IInd SEMESTER** |
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 **February 2025**

**Sets and their representations, types of sets, subsets, union and intersection of sets, difference of two sets, complement of a set, Venn-diagram, De-Morgan's laws and their applications.**

**March 2025**

**Functions and its graphical Representation**

**April 2025**

**The concept of differentiation, Differentiation of simple functions, second order derivative and its Application.**

**May 2025**

**Integration of simple algebraic and trigonometric functions.**

**Course Learning Outcomes (CLOs):**

After completing this course, the learner will be able to:

l. Gain the knowledge of set theory, types of sets and operations on sets.

2. Understand the concept of functions with graphical representation.

3. Find derivatives of simple functions and derive its application.

 4. Evaluate integral of simple algebraic and trigonometric functions.