Govt. College for Girls, Cheeka (Kaithal)
Lesson Plan: (from 11 February, 2025 to 31 May, 2025)

Name of Assistant Professor:Darshan Singh
Class and Section: B. SC/B.A. III (Even Sem)
Subject: Dynamics

Week	Topic
Feb-2	Introduction about Syllabus
Feb-3	Basic definitions
Feb-4	Velocity and acceleration along Radical and transverse Direction
March-1	Velocity and acceleration along tangential and normal Direction
March-2	Introduction about Simple Harmonic Motion
March-3	Examples related S.H.M.
March-4	Elastic Strings
March-5	Test and Query
April-1	Mass and Momentum
April-2	Force and continue
April-3	Newton's law of motion
April-4	Introduction about Work and Power and Energy
May-1	Examples related Work and Power and Energy
May-2	Definition of conservative forces and impulsive forces
May-3-4	Revision.

DARSHAN SINGH
Department of Mathematics,
G.C.G Cheeka ,Kaithal

Lesson Plan(Even sem)

Duration: 11th February 2025 – 31st May 2025

Subject: Mathematics(SEC)

Week 1: 11 February 2025 - 17 February 2025

Topic: Real Number System, Operations on Numbers

Description: Introduction to real numbers, properties, and operations.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 2: 18 February 2025 - 24 February 2025

Topic: Tests for Divisibility of Natural Numbers

Description: Rules and practice problems for divisibility tests.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 3: 25 February 2025 - 03 March 2025

Topic: Decimals and Fractions

Description: Conversions, operations, and applications in real life.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 4: 04 March 2025 - 10 March 2025

Topic: Square Roots, Cube Roots, Surds, and Indices

Description: Methods of calculation, simplifications, and properties.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 5: 11 March 2025 - 17 March 2025
Topic: Use of BODMAS, HCF, LCM of Integers

Description: Order of operations, highest common factor, and least common multiple.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 6: 18 March 2025 - 24 March 2025
Topic: Ratio and Proportion

Description: Concepts, properties, and problem-solving techniques.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 7: 25 March 2025 - 31 March 2025
Topic: Progressions: AP, GP, HP

Description: Definitions, formulas, and simple applications.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 8: 01 April 2025 - 07 April 2025
Topic: Number Series Completion

Description: Identifying patterns and completing sequences.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 9: 08 April 2025 - 14 April 2025
Topic: Percentage, Profit & Loss

Description: Concepts, formulas, and real-life problems.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 10: 15 April 2025 - 21 April 2025

Topic: Alligation or Mixture

Description: Concepts and methods of solving mixture problems.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 11: 22 April 2025 - 28 April 2025

Topic: Average and Average Speed Problems

Description: Methods of calculation and real-life applications.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 12: 29 April 2025 - 05 May 2025

Topic: Calendar Problems

Description: Finding days of the week for any given date.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 13: 06 May 2025 - 12 May 2025

Topic: Logarithms

Description: Basic concepts, properties, and applications.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 14: 13 May 2025 - 19 May 2025

Topic: Area of Quadrilaterals

Description: Formulas and calculations for various quadrilaterals.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 15: 20 May 2025 - 26 May 2025

Topic: Volume and Surface Area of Cube & Cuboid

Description: Formulas, real-life applications, and problem-solving.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Week 16: 27 May 2025 – 31 may 2025

Topic: Volume and Surface Area of Cylinder

Description: Understanding and applying formulas.

Teaching Strategy: Explanation, problem-solving, and practical applications.

Assessment: Worksheets, quizzes, and class participation.

Darshan Singh

Assistant Professor of Mathematics

Weekly Lesson Plan

Duration: 11th February 2025 - 31st May 2025

Subject: Mathematics (Business mathematics)

Class: b.com 2nd sem

Week	Topics Covered	Objectives & Activities
Week 1-2	Introduction to Differentiation, Basic Rules, Derivative of Simple Functions	Understand differentiation rules, practice basic derivative problems.
Week 3-4	Applications of Derivatives in Business: Revenue, Cost, Profit Functions	Apply differentiation to business scenarios, solve maxima & minima problems.
Week 5-6	Introduction to Integration, Basic Rules of Indefinite Integration	Understand and solve simple integration problems.
Week 7-8	Definite Integration and its Applications in Business	Apply integration to commercial problems, practice real-world scenarios.
Week 9-10	Binomial Theorem: Expansion and Applications	Understand binomial expansion, apply in business computations.
Week 11-12	Permutations and Combinations: Concept & Applications	Solve problems related to arrangements and selections.
Week 13-14	Introduction to Linear Programming: Formulation of LPP	Formulate LPP for business problems, understand constraints.
Week 15-16	Graphical & Simplex Method for LPP	Solve LPP using graphical and simplex methods.
Week 17	Revision and Problem Solving	Review key concepts and practice problems.
Week 18	Assessment & Final Discussions	Final evaluation and doubt clearing session.

Darshan Singh

Assistant Professor of Mathematics