

Shri Kapil Muni Government College for Women, Kalayat(Kaithal)

Session 2025-26 (Odd Semester)

Name of Teacher: Ritu Rani

Class: B.A Ist sem.

Lesson Plan

Designation: Assistant Professor

Subject: Maths. (Calculus)

Topics to be covered

Week 1 22 July - 26 July 2025	ϵ - δ definition of limits & Basic concept.
Week 2 28 July - 02 Aug 2025	Types of discontinuities, diff. function.
Week 3 04 Aug - 09 Aug 2025	Indeterminate Forms.
Week 4 11 Aug - 16 Aug 2025	Successive differentiation.
Week 5 18 Aug - 23 Aug 2025	Taylor's and Maclaurin's series
Week 6 25 Aug - 30 Aug 2025	Some General theorems on diff. functions
Week 7 01 Sep - 06 Sep 2025	Asymptotes - horizontal vertical and oblique.
Week 8 08 Sep - 13 Sep 2025	Asymptotes for polar curves
Week 9 15 Sep - 20 Sep 2025	Curvature.
Week 10 22 Sep - 27 Sep 2025	Singular points.
Week 11 29 Sep - 04 Oct 2025	Curve tracing.
Week 12 06 Oct - 11 Oct 2025	Reduction formulae.
Week 13 13 Oct - 18 Oct 2025	Rectification intrinsic equation of a curve.
Diwali Vacations 19-10-2025 to 26-10-2025	
Week 14 27 Oct - 31 Oct 2025	Quadrature.
Week 15 03 Nov - 08 Nov 2025	Area bounded by closed curves.
Week 16 10 Nov - 15 Nov 2025	Volumes and surfaces of solids of revolution.
Week 17 17 Nov - 22 & 24 Nov 2025	

Shri Kapil Muni Government College for Women, Kalayat(Kaithal)

Session 2025-26 (Odd Semester)

Name of Teacher:

Rinu Rani

Class:

B.A. IInd (3rd sem)

Lesson Plan

Designation:

Assistant Professor

Subject:

Maths (MDC) Mathematics for all.

Topics to be covered

Week 1 22 July - 26 July 2025	Concept of set, Type of sets.
Week 2 28 July - 02 Aug 2025	Venn diagram, De-Morgan's Law.
Week 3 04 Aug - 09 Aug 2025	Solution of Quadratic, Cubic linear equation.
Week 4 11 Aug - 16 Aug 2025	Arithmetic & Geometric Progression.
Week 5 18 Aug - 23 Aug 2025	Differentiation.
Week 6 25 Aug - 30 Aug 2025	Integration.
Week 7 01 Sep - 06 Sep 2025	Presentation of Data.
Week 8 08 Sep - 13 Sep 2025	Measures of Central tendency.
Week 9 15 Sep - 20 Sep 2025	Measures of Dispersion.
Week 10 22 Sep - 27 Sep 2025	Mean deviation and its coefficient.
Week 11 29 Sep - 04 Oct 2025	Variance and its coefficient, standard deviation.
Week 12 06 Oct - 11 Oct 2025	Concept and type of Correlation.
Week 13 13 Oct - 18 Oct 2025	Mean deviation and coefficient.
Diwali Vacations 19-10-2025 to 26-10-2025	
Week 14 27 Oct - 31 Oct 2025	Karl Pearson's coefficient of Correlation.
Week 15 03 Nov - 08 Nov 2025	Principle of least square, Fitting of
Week 16 10 Nov - 15 Nov 2025	Straight line. Regression.
Week 17 17 Nov - 22 & 24 Nov 2025	Differential Equation.

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Session 2025-26 (Odd Semester)

Name of Teacher: Rinu Rani
Class: BA. 3rd sem.

Lesson Plan
Designation: Assistant - Professor
Subject: Maths (Differential Equations-I)
Topics to be covered

Week 1 22 July - 26 July 2025	Differential Equation of first order and first degree.
Week 2 28 July-02 Aug 2025	Langrange's Equation.
Week 3 04 Aug -09 Aug 2025	Solution of diff. eq ⁿ . of First order.
Week 4 11 Aug -16 Aug 2025	Exact diff. eq ⁿ .
Week 5 18 Aug -23 Aug 2025	Orthogonal trajectories.
Week 6 25 Aug -30 Aug 2025	Linear diff. eq ⁿ with constant coefficients.
Week 7 01 Sep-06 Sep 2025	Solution linear non-homogenous diff. eq ⁿ .
Week 8 08 Sep-13 Sep 2025	Cauchy - Euler eq ⁿ .
Week 9 15 Sep-20 Sep 2025	Linear Diff. eq ⁿ . of 2nd order with variable coeff.
Week 10 22 Sep-27 Sep 2025	Ordinary Simultaneous diff. eq ⁿ .
Week 11 29 Sep-04 Oct 2025	Total diff. eq ⁿ .
Week 12 06 Oct-11 Oct 2025	First order Linear Partial diff. eq ⁿ .
Week 13 13 Oct-18 Oct 2025	Concept of linear, non linear PDE's.
Diwali Vacations 19-10-2025 to 26-10-2025	
Week 14 27 Oct-31 Oct 2025	Langrange's method for PDE forms.
Week 15 03 Nov-08 Nov 2025	First order non-linear P.D.E.
Week 16 10 Nov-15 Nov 2025	Second order Linear PDE with constant coeff.
Week 17 17 Nov-22 & 24 Nov 2025	