

Department of Mathematics
Lesson Plan
B.A. 1st year 1st Sem. (2025-26)
Paper: Sets and Sequences (Minor)
Name of teacher: Dr. Renu Sheoran

Month of August:

- ❖ Definition of sets
- ❖ Representation of sets
- ❖ Type of sets
- ❖ Finite and infinite sets

Month of September:

- ❖ Operation on sets
- ❖ Venn diagram
- ❖ Complement of set
- ❖ Demorgan's law
- ❖ Practical application of set operation
- ❖ Assignment and test.

Month of October:

- ❖ Arithmetic progression
- ❖ Nth term of AP.
- ❖ Sum of n terms of A.P.
- ❖ Geometric progression

Month of November:

- ❖ Nth term of G.P.
- ❖ Sum of n terms of G.P.
- ❖ Sum of infinite terms of G.P.
- ❖ Harmonic progression
- ❖ Assignment and test

Month of December:

- ❖ Revision

Sign of teacher

Department of Mathematics
Lesson Plan
B.COM. 1st year 1st Sem. (2025-26)
Paper: Business Mathematics (Minor)
Name of teacher: Dr. Renu Sheoran

Month of August:

- ❖ Definition of matrices
- ❖ Type of matrices
- ❖ Algebra of matrices
- ❖ Properties of determinant

Month of September:

- ❖ Arithmetic progression
- ❖ Nth term of AP.
- ❖ Sum of n terms of A.P.
- ❖ Geometric progression
- ❖ Nth term of G.P.
- ❖ Sum of n terms of G.P.
- ❖ Sum of infinite terms of G.P.
- ❖ Assignment and test.

Month of October:

- ❖ Common logarithm
- ❖ Anti logarithm

Month of November:

- ❖ Annuity
- ❖ Compound interest
- ❖ Assignment and test

Month of December:

- ❖ Revision

Sign of teacher

Department of Mathematics
Lesson Plan
B.A. 2nd year 3rd Sem. (2025-26)
Paper: Differential Equations (Major)
Name of teacher: Dr. Renu Sheoran

Month of August:

- ❖ Differential equation
- ❖ Exact differential equation
- ❖ Lagrange's equation
- ❖ Clairaut's equation
- ❖ Singular solution

Month of September:

- ❖ Linear differential equation with constant coefficient
- ❖ Homogeneous linear differential equation
- ❖ Equation reducible to Homogeneous linear differential equation
- ❖ Ordinary simultaneous differential equation
- ❖ Solution of simultaneous differential equation

Month of October:

- ❖ Formation of partial differential equation
- ❖ Solution of partial differential equation
- ❖ Formation of partial differential equation with variable coefficient
- ❖ Solution of partial differential equation with variable coefficient

Month of November:

- ❖ Classification of linear partial differential equation of second order
- ❖ Linear and non linear, homogeneous and non homogeneous partial differential equation of second order and higher order with constant and variable coefficient

Month of December:

- ❖ Revision

Sign of teacher

Department of Mathematics
Lesson Plan
B.A. 3rd year 5th Sem. (2025-26)
Paper: 1) Sequence and Series
2) Groups and Rings
Name of teacher: Dr. Renu Sheoran

Month of July:

- ❖ Fouries series
- ❖ Half range fourier series
- ❖ Parseval's identity

Month of August:

- ❖ Groups
- ❖ Subgroup
- ❖ Cosets
- ❖ Quotient group

Month of September:

- ❖ Homomorphism
- ❖ Automorphism
- ❖ Permutation group

Month of October:

- ❖ Ring
- ❖ Field
- ❖ Subring
- ❖ Ideal and Quotient Ring

Month of November:

- ❖ Euclidean Ring
- ❖ Polynomial Ring
- ❖ Assignment and test

Month of December:

- ❖ Revision

Sign of teacher

Department of Mathematics
Lesson Plan
B.A. 2nd year 3rd Sem. (2025-26)
Paper: Application of Mathematical Statistics in daily life
(MDC)
Name of teacher: Dr. Renu Sheoran

Month of August:

- ❖ Definition, importance and application of statistics
- ❖ Type of Data
- ❖ Organizing Data

Month of September:

- ❖ Mean for ungrouped and grouped data
- ❖ Median for ungrouped and grouped data
- ❖ Assignment and test

Month of October:

- ❖ Mode for ungrouped and grouped data
- ❖ Range

Month of November:

- ❖ Standard deviation and variance for ungrouped data and grouped data
- ❖ Interquartile range
- ❖ Assignment and test

Month of December:

- ❖ Revision

Sign of teacher

Department of Mathematics
Lesson Plan
B.A./B.Com. 1st year 1st Sem. (2025-26)
Paper: Environmental Studies (VAC)
Name of teacher: Dr. Renu Sheoran

Month of August:

- ❖ Multidisciplinary nature of environmental studies
- ❖ Definition, scope, importance and need of EVS

Month of September:

- ❖ Ecosystem
- ❖ Ecological succession
- ❖ Assignment and test.

Month of October:

- ❖ Biodiversity and its conservation
- ❖ Biogeographically classification of India

Month of November:

- ❖ Value of biodiversity
- ❖ In-situ and Ex-situ conservation of biodiversity
- ❖ Assignment and test

Month of December:

- ❖ Revision

Sign of teacher