Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector - 36A, Chandigarh
Monthly Teaching Plans-Odd Semester (Semester-I)
Session – 2024-25

Department: Mathematics
Class: MDC (BSc/B.A-I)
Subject: Basic Mathematics-I
Name of the Teacher: Dr Sonica

Month	Date		Topics to be covered	Academic Activity to be Undertaken
	From	**To**		
August	01.08.2024	31.08.2024	Sets: its types, subsets, Venn diagrams, Operation on sets, Algebra of sets and applications of set theory. Relations: Cartesian product of sets, relations. Functions: some real functions with their graphs, sum, difference, product and quotient of functions.	Syllabus, Examination pattern discussed, Doubt session.
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 02.09.2024			
September	02.09.2024	30.09.2024	Principal of Mathematical Induction, Matrices: Types of Matrices, Operations on matrices, Transpose of matrix, Symmetric and skew-symmetric matrices. Determinants: Properties of determinants, Minor and cofactors, Ad joint and inverse of a matrix.	Doubt session, Assignments, revision of a few topics.
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.10.2024			
October	01.10.2024	31.10.2024	Statistics: Introduction to Statistics, Measure of Dispersion, range, mean deviation, Variance and standard deviation, analysis of frequency distribution. Linear inequalities: Introduction, algebraic solution of linear inequalities in one variable and their graphical representation, graphical solution of linear inequalities in two variables, solution of system of linear inequalities in two variables.	Doubt session, Assignments, conducted MST
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.11.2024			
November	01.11.2024	18.11.2024	Permutation: fundamental principle of counting, addition principle, factorial, permutations and its practical problems, permutations with repetitions, combinations and practical problems based on combinations.	Tutorial classes, Doubt session, Assignments, Question papers discussed. Revision of a few topics
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 18.11.2024			
End semester Examination 19.11.2024 to 26.12.2024			

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Lesson Plan
Mehr Chand Mahajan DAV College for Women, Sector - 36A, Chandigarh
Monthly Teaching Plans-Even Semester (Semester-II)
Session – 2024-25

Department: Mathematics
Class: MDC (BSc/B.A-I)
Subject: Basic Mathematics-II
Name of the Teacher: Dr Sonica

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Month	Date		Topics to be covered	Academic Activity to be Undertaken
	From	**To**		
January	10.01.2025	31.01.2025	Limit, Continuity, Derivatives and Differentiability: Limits, Continuity Intuitive idea of derivative.	Syllabus, Doubt session.
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.02.2025				
February	01.02.2025	28.02.2025	Differentiability and applications of derivatives: Differentiability, Exponential and logarithmic differentiation, derivative of a function of a parameter, second order derivatives. Increasing and decreasing functions, Maxima and Minima, Rolle's theorem, Lagrange's mean value theorem.	Syllabus, Examination pattern discussed, Doubt session.
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.03.2025				
March	01.03.2025	31.03.2025	Integral calculus: Integration as an anti-derivative, Integration by substitution, by partial fractions and by parts.	Doubt session, Assignments, revision of a few topics.
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 01.04.2025				
April	01.04.2025	26.04.2025	Probability: Introduction, Random experiments, Events, axiomatic approach to probability.	Doubt session, Assignments, conducted MST
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans on 26.04.2025				
End semester Examination 28.04.2025 to 04.06.2025				