

BAIJNATH CHAUDHARY GOVT. COLLEGE FOR WOMEN, NANGAL CHAUDHARY

Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Sushma Yadav Sem. Ist

Class and Section: B. Com. Ist

Subject: Business Mathematics

Month	Topics
21 st July 2023 to 31 st July 2023	Indices and Logarithms; Theory of Sets: Meaning, elements, types, equality of sets, union, Intersection, complement and Difference of sets. Test of unit - I st
1 st August 2023 to 31 st August 2023	Elementary idea of Permutations and Combinations. Test of unit - II
1 st September 2023 to 30 th Sept. 2023	Sequences and Series, A.P, G.P Test of unit - III
1 st October 2023 to 31 st Oct. 2023	Data interpretation: Introduction, approaches to data interpretation, tabulation, Bar graphs. Test of unit - IV
1 st Nov. 2023 to 24 th Nov. 2023	Pie charts, Line graphs, Mix graphs. Test

Sushma
Teacher's Signature

BAIJNATH CHAUDHARY GOVT. COLLEGE FOR WOMEN, NANGAL CHAUDHARY

Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Sukma Yadav Sem. Ist

Class and Section: B.A / B.Sc Ist year Subject: vector calculus (Maths)

Month	Topics
21 st July 2023 to 31 st July 2023	Limits, continuity and Derivability Successive Differentiation Some General Theorems on Differentiable fun ⁿ 's + Expansions . Test of unit - I
1 st August 2023 to 31 st August 2023	Asymptotes Curvature Singular Point Test of unit - II
1 st September 2023 to 30 th Sept. 2023	Curve Tracing Reduction Formulae Rectification Test of unit - III
1 st October 2023 to 31 st Oct. 2023	Quadrature volumes and Surface of Solids of Revolution -
1 st Nov. 2023 to 24 th Nov. 2023	Test of unit - IV

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BAIJNATH CHAUDHARY GOVT. COLLEGE FOR WOMEN, NANGAL CHAUDHARY

Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Sushma Yadav Sem. 3rd

Class and Section: B.Sc. 2nd (N.M)
B.A 2nd

Subject: Advanced Calculus (Maths)

Month	Topics
21 st July 2023 to 31 st July 2023	continuity, Sequential continuity, Properties of continuous functions, chain rule of differentiability. Mean value theorems, Rolle's Th ^m and Lagrange's mean value theorems and their geometrical interpretations. Taylor's Th ^m , Test of unit-1 st
1 st August 2023 to 31 st August 2023	Limit and continuity of real valued functions of two variables. Partial Differentiation. change of variables. Homogeneous functions and Euler's Theorem on Homogeneous functions. Taylor's Th ^m for f ⁿ 's of two variables. Test unit - 2 nd
1 st September 2023 to 30 th Sept. 2023	Differentiability of real valued functions of two variables. Schwarz and Young's Theorem. Implicit function theorem. Maxima, Minima and Saddle Points of two variables. Test of unit 3 rd
1 st October 2023 to 31 st Oct. 2023	Curves, Tangents, Principal normals, Binormals Serret - Frenet Formulae. Locus of the centre of curvature, Spherical curvature. Evolutes, Bertrand curves. Surfaces: Tangent planes, one Parameter. Test of unit - 4 th
1 st Nov. 2023 to 24 th Nov. 2023	Envelopes Test

Sushma
Teacher's Signature

Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Sushma Yadav Sem. 5th

Class and Section: B.A./B.Sc. 3rd year Subject: Groups and Rings

Month	Topics
21 st July 2023 to 31 st July 2023	Definition of a group with example and simple properties of groups. Subgroups and generation of groups, cyclic groups, cosets, left and right cosets, Normal Subgroups, Quotient groups. Test - I unit
1 st August 2023 to 31 st August 2023	Homomorphisms, isomorphisms, automorphisms and inner automorphisms of a group. Permutation group Even or odd Permutations. Cayley's Theorem. Centre of a group and derived group of a group. Test of unit - II
1 st September 2023 to 30 th Sept. 2023	Rings, Subrings, Integral Domains and fields characteristics of a ring. Ring homomorphisms, ideals and quotient rings, Field of quotients of an integral domain. Test of unit - III
1 st October 2023 to 31 st Oct. 2023	Eudidean rings, Polynomial Rings, Polynomials over the rational field. The Eisenstein's criterion of irreducibility, Polynomial rings over commutative rings. Test of unit - IV
1 st Nov. 2023 to 24 th Nov. 2023	Unique factorization domain. R unique factorization domain implies so is R $\{x_1, x_2, \dots, x_n\}$ Test

Sushma
Teacher's Signature