

Govt. College for Girls, Pillukhera

Lesson plan of Mathematics : B.COM. I(Sem-2nd)

Paper : Business Mathematics II

Mrs Ravinder

February-2024

Differentiation: derivatives of simple functions and other functions, having application in business studies, Maxima and minima of Cost Demand Production Profit and other functions

March-2024

Integration : Definite and Indefinite, Application of integrations in commercial and business problems
Assignment 1 and Test 1

April-2024

Binomial Theorem , Permutations and Combinations
Linear programming problem and solution by Graphical and simplex method
Assignment 2 and Test 2

May-2024

Revision of Syllabus

Ravinder
2/3/24

Name of the Assistant/Associate Professor: Mrs. Ravinder

Class and Semester: B.A. 2nd year (4th Semester)

Subject: Mathematics

Paper: Sequences and series

February - 2024

Topics: Supremum and Infimum of a subset of real numbers. Different properties of sets of real numbers. Completeness axiom and Archimedean property.

March - 2024

Topics: Sequences and their properties, Convergence Divergence and oscillatory behavior of sequences. Different methods to check convergence of a sequence.
First Assignment and test

April - 2024

Infinite series, D'Alembert Ratio test Cauchy root test Logarithmic and other tests to check the behavior of infinite series. Alternating and arbitrary series
Assignment and Test

May - 2024

Revision of the syllabus

Ravinder
2/3/24

Govt. College for Girls, Pillukhera

Lesson plan of Mathematics : B.A. I(Sem-2nd)

Paper Algebra and Number Theory

Mrs Ravinder

February-2024

UNIT 1 Matrices and its properties, Rank of matrices, Symmetric skew symmetric, hermitian and skew hermitian matrices, Cayley Hamilton theorem and its use in finding the inverse of a matrix, Unitary and orthogonal matrices.

March-2024

Relation between the roots and coefficients of general polynomial equation in one variable, Solution of polynomial equations Transformation of equations. Assignment 1 and test 1

April-2024

Different method of solving cubic and biquadratic equations. Divisibility, Greatest common divisor, Least common multiple, Prime numbers, Fundamental theorem of arithmetic Assignment 2 and test 2

May-2024

Linear congruences, Fermat's Theorem, Euler's theorem
Revision of the syllabus

Ravinder
2/3/24

Name of the Assistant/Associate Professor: Mrs. Ravinder

Class and Semester: B.A. 3rd year (6th Semester)

Subject: Mathematics

Paper: Linear Algebra

February - 2024

Topics- Vector spaces and subspaces, Properties, Linear transformation, Basis and dimensions of vector spaces
Learning Objective:- Students will learn about vector spaces

March - 2024

Topics Dual spaces, Bidual spaces, Annihilator of subspaces of finite dimensional vector spaces. Null space, Range space of a linear transformation
First Assignment - .

April - 2024

Topics Algebra of linear transformation, Minimal polynomial of a linear transformation, Eigen values and Eigen vectors of a linear transformation
Second Assignment - .
Test

May - 2024

Topics Inner Product Spaces, Cauchy Schwarz inequality, Orthogonal vectors, Orthogonal complements, Orthogonal set and Basis Revision of the syllabus

Ravinder
8/3/24

Govt. College for Girls, Pillukhera

Lesson plan of Mathematics : B.A. I(Sem-2nd)

Paper :SEC (Calculation skills with Vedic Mathematics)

Mrs Ravinder

February-2024

History of vedic mathematics .Addition with Dot method and Subtraction(Nikhilam Navatashcaramam Dashatah)Fractions

March-2024

Different methods of multiplication of two numbers, Combined operations, Generating Tables
Assignment 1 and Test 1

April-2024

Division .Divisibility.HCF,LCM,Square of two digit numbers.Square of numbers ending in 5

May-2024

Assignment 2 and Test 2,Revision of Syllabus

Ravinder
2/3/24