Lesson plan

April 2022 to July 2022

Name of Assistant Professor : Ajay Singh

Class : B.Sc 3rd (6th Sem)

Section : A , B and C

Subject : Mathematics

Paper : Special Function and Integral transformation

April :— Power Series , Bessel's Equation and Function , Legendre's Equation

Assignment -Ist

May :— Hermite's Equation , Laplace Transforms , Inverse Laplace Transforms , Test (Assignment -IInd - June)

June :— Use of Laplace Transforms in integral Equations, Solution of Differential Equations by Laplace Transformation , Fourier Transforms

July :— Solution of diff. eqn. by Fourier Transforms. Test , Revision of syllabus

April 2022 to July 2022

Govt. P.G. college, JIND

Name of Assistant/Associate Professor : Ajay Singh

Class and Section : B.Sc 3rd (6th sem) Sec: A, B and C

Subject : Mathematics

Paper : Linear Algebra

April :- Vector Spaces and Subspaces, Basis and Dimension, Quotient Space, Assignment-Ist

May :- Linear Transformations, Rank and Nullity, Algebra of Linear Transformations.
Test

June :- Matrix of a Linear Transformation, Dual Space, Eigen values and Eigen vectors.
Assignment-IInd

July :- Inner Product spaces, Linear operators on Inner Product Spaces, Revision of syllabus.

Name of the Assistant/Associate Professor: BHAGWAN DASS

Class and Section: B.Sc. 3rd year (VIth Semester) Sec-A

Subject: Mathematics.

Paper: Real and Complex Analysis

April 2022

Topics -*Jacobians, Beta and Gama functions, Double and Triple integrals, Dirichlets integrals, change of order of integration in double integrals.*

May 2022

Topics-*Fourier expansion of piecewise monotonic functions, Properties of Fourier Co-efficients, Dirichlet's conditions, Parseval's identity for Fourier series, Fourier series for even and odd functions, Half range series, Change of Intervals..*

Assignment-I

June 2022

Topics- *Extended Complex Plane, Stereographic projection of complex numbers, continuity and differentiability of complex functions, Analytic functions, Cauchy-Riemann equations. Harmonic functions, Translation, Rotation.*

Class Test

July 2022

Topics- *Magnification and Inversion. Conformal Mappings, Mobius transformations. Fixed pints, Cross ratio, Inverse Points and critical mappings*

Assignment-II

Name of the Assistant/Associate Professor: BHAGWAN DASS

Class and Section: B.Sc. 3rd year (VIth Semester) Sec-B

Subject: Mathematics.

Paper: Real and Complex Analysis

April 2022

Topics - *Jacobians, Beta and Gama functions, Double and Triple integrals, Dirichlets integrals, change of order of integration in double integrals.*

May 2022

Topics- *Fourier expansion of piecewise monotonic functions, Properties of Fourier Co-efficients, Dirichlet's conditions, Parseval's identity for Fourier series, Fourier series for even and odd functions, Half range series, Change of Intervals..*

Assignment-I

June 2022

Topics- *Extended Complex Plane, Stereographic projection of complex numbers, continuity and differentiability of complex functions, Analytic functions, Cauchy-Riemann equations. Harmonic functions, Translation, Rotation.*

Class Test

July 2022

Topics- *Magnification and Inversion. Conformal Mappings, Mobius transformations. Fixed pints, Cross ratio, Inverse Points and critical mappings*

Assignment-II

Name of the Assistant/Associate Professor: BHAGWAN DASS

Class and Section: B.Sc. 3rd year (VIth Semester) Sec-C

Subject: Mathematics.

Paper: Real and Complex Analysis

April 2022

Topics - *Jacobians, Beta and Gama functions, Double and Triple integrals, Dirichlets integrals, change of order of integration in double integrals.*

May 2022

Topics- *Fourier expansion of piecewise monotonic functions, Properties of Fourier Co-efficients, Dirichlet's conditions, Parseval's identity for Fourier series, Fourier series for even and odd functions, Half range series, Change of Intervals..*

Assignment-I

June 2022

Topics- *Extended Complex Plane, Stereographic projection of complex numbers, continuity and differentiability of complex functions, Analytic functions, Cauchy-Riemann equations. Harmonic functions, Translation, Rotation.*

Class Test

July 2022

Topics- *Magnification and Inversion. Conformal Mappings, Mobius transformations. Fixed pints, Cross ratio, Inverse Points and critical mappings*

Assignment-II

LESSON PLAN
April 2022 to May 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: GURDEEP
Class and Section: B.Com. 1st year (2nd Semester), Sec-C
Subject: Mathematics
Paper: Business Mathematics-II

APRIL
Chapter: exercise of permutaion
Exercise and problem related to combination Assignment -1st

MAY
Chapter- Binomial Theorm
Exercise of binomial theorm
Linear inequality Class Test
Solution of linear inquality in system of two variable

JUNE
Chapter - linear programming
Formulation of equation
Graphical method of solution, Assignment-2nd
Mixed constraints solution
DATA INTRODUCTION
CLASSIFICATION AND TABULATION
DIAGRAMATIC REPRESENTATION OF DATA

JULY
Graphical representation of data
Data interpretation
Revision of all chapters

LESSON PLAN
April 2022 to May 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: GURDEEP
Class and Section: Bsc 2nd sec A,C / B.A 2 nd yr
Subject: Mathematics
Paper: Programming in C and numerical analysis
APRIL
Chapter: computer A general introduction
Chapter -Intro to C
Chapter- Data typer
Chapter -operator and expression
Chapter -Decision control structure
Assignment 1st

MAY
Chapter- solution of algebraic and transcendental equation
Chapter- simultaneous Linear Algebric equation
Class test

JUNE
Chapter - Loops
Chapter- Functions
Assignment 2nd
Chapter - The C processor
Chapter -Arrays
Chapter- Puppeting of string

JULY
Chapter -structure and unions
Chapter-pointers
Chapter-Files in C

Lesson Plan

April 2022 to July 2022

Govt P.G College, JIND

Name of Assistant Professor : JYOTI

Class : BCA Ist year (2nd Sem)

Subject : Mathematical Foundation - II

April :— Proposition and Logical operator, Truth tables and Propositions generated by a set, Equivalence, Laws of logic, Mathematical system, Proposition over a Universe, Mathematical induction, Quantifiers, Binary operations on a non-empty set, groups, Subgroups, Cosets, Factor groups.

Assignment - Ist

May :— Rings, Sub rings, Ideals, Factor rings, Prime ideals, Minimal ideals, Fields, direct product of groups, Isomorphism of groups and rings, Test, Addition, Laws of matrix algebra, Singular & non Singular matrices. Inverse of a matrix.

June :— Rank of matrix, product of two matrices, system of linear eq^{n}, ch. of eq^{n}. of a square matrix, Caley-Hamilton Th^{m}, Eigen values and Eigen vectors, Eigen values and Eigen vectors of symmetric skew symmetric.

Assignment - IInd

July :— Hermitian and skew-Hermitian matrices, Diagonalization of a square matrix. Revision of syllabus.

Lesson Plan

April 2022 to July 2022

Govt P.G College, JIND

Name of Assistant Professor : JYOTI

Class : BCA Ist year (2nd Sem)

Subject : Mathematical Foundation - II

April :— Proposition and Logical operator, Truth tables and Propositions generated by a set, Equivalence, Laws of logic, Mathematical system, Proposition over a Universe, Mathematical induction, Quantifiers, Binary operations on a non-empty set, groups, Subgroups, Cosets, Factor groups.

Assignment - Ist

May :— Rings, Sub rings, Ideals, Factor rings, Prime ideals, Minimal ideals, Fields, direct product of groups, Isomorphism of groups and rings, Test, Addition, Laws of matrix algebra, Singular & non Singular matrices. Inverse of a matrix.

June :— Rank of matrix, product of two matrices, system of linear eq^{n}, ch. of eq^{n}. of a square matrix, Caley-Hamilton Th^{m}, Eigen values and Eigen vectors, Eigen values and Eigen vectors of symmetric skew symmetric.

Assignment - IInd

July :— Hermitian and skew-Hermitian matrices, Diagonalization of a square matrix. Revision of syllabus.

LESSION PLAN	
SESSION	2021-2022(APRIL TO JULY)
TEACHER NAME	MANNU ARYA
CLASS	B.SC 1^{ST} YEAR
SECTION	A,B,C,D
SUBJECT/PAPER	NUMBER THEORY AND TRIGONOMETRY
SEMESTER	2^{ND}
APRIL	Divisibility, G.C.D.(greatest common divisors), L.C.M.(least common multiple) Primes, Fundamental Theorem of Arithmetic. Linear Congruence's, Fermat's theorem. Wilson's theorem and its converse. Linear Diophantine equations in two variables+1^{st} assignment
MAY	Complete residue system and reduced residue system modulo m. Euler function Euler's generalization of Fermat's theorem. Chinese Remainder Theorem. Quadratic residues. Legendre symbols. Lemma of Gauss; Gauss reciprocity law. Greatest integer function [x]. The number of divisors and the sum of divisors of a natural number n (The functions d(n) and s (n)). Moebius function and Moebius inversion formula.+ 2nd assignment
JUNE	De Moivre's Theorem and its Applications. Expansion of trigonometrical functions. Direct circular and hyperbolic functions and their properties
JULY	Inverse circular and hyperbolic functions and their properties. Logarithm of a complex quantity. Gregory's series. Summation of Trigonometry series
JULY	Revision of some important topic +test

LESSON PLAN

April 2022 to July 2022

Govt. P.G college, JIND
Name of the Assistant/Associate Professor: Mukesh kumari
Class and Section: B.Sc. 1st year (2nd Semester), Sec-A
Subject: Mathematics
Paper: Ordinary Differential Equations

April

Chapter: Section 1
Geometrical meaning of a differential equation. Exact differential equations, integrating factor. First order higher degree equations solvable for s,y,p. Lagrange's equations, Clairaut's equations. Equations reducible to Clariaut's form. Singular solutions.

May

Chapter- Section 2
Homogeneous linear ordinary differential equations. Equations reducible to homogeneous.
system of two variable

June

Chapter – Section 3
Linear differential equations of second order. Reduction to normal form. Transformation fo the equation by changing the dependent variable / independent variable. Solution by operators of non-homogeneous liner differential equations.

July

Chapter - 4
Ordinary simultaneous differential equations. Soution of simultaneous differential equations involving operators x (d / dx) or t (d / dt) ete. Simultaneous equation fo the form ds/P = dy/W = dz/R. Total differential equations. Condition for Pdx = Qdy = Rdz = 0 to be exact.
Revision of all chapters

LESSON PLAN

SESSION	APRIL 2022 TO JULY 2022
TEACHER NAME	Mukesh kumari
CLASS	B.SC. 1ST YEAR
SECTION	A
SUBJECT	MATHEMATICS
PAPER	VECTOR CALCULUS
SEMESTER	2ND
APRIL	Scalar and Vector product of three and four vectors , Reciprocal vectors. Vector Differentiation , Scalar and Vector Valued point functions , derivative along a curve , directional derivatives. + 1st Assignment
MAY	Gradient of a scalar point function , Gradient , Divergence and curl of vector point function . Sums , Product and their related vector identities , Laplacial Operator. + Test
JUNE	Orthogonal curvilinear co-ordinates , Gradient , Divergence , curl and Laplacian operators in terms of orthogonal curvilinear , cylindrical and spherical co-ordinates. Vector Integration . + 2 nd Assignment
JULY	Theorem of Gauss , Green , Stokes and problems based on these. & Revision

LESSIONPLAN	
SESSION	2021-2022(APRILTOJULY)
TEACHERNAME	NEERU
CLASS	B.SC2ndYEAR
SECTION	A,B,C,D
SUBJECT/PAPER	SEQUENCE AND SERIES/
SEMESTER	4th
APRIL	BOUNDEDNESS of the set of real numbers,l u b ,g l b of a set,nbdhoods,interior points,isolated points,limit points,open sets,closed sets,interior of a set,closure of a set in real numbers and their properties .Bolzano-Weierstrass theorem.Open covers.Compact sets and Heine-Borel Theorem+1stassignment
MAY	Sequence: Real sequence and their convergence,thms on limits of sequence ,Bounded and monotonic seq ,Cauchy's seq ,Cauchy general principal of convergence,Subsequences Infinite series :Convergence and divergence of infinite series,comparison tests of positive terms infinite series,cauchy's general principal of convergence of series ,hyper harmonic series +2nd assignment
JUNE	Infinite series: D'Alembert's test,Raabe's test,Logarithmic test,de morgan and Bertrands's test,cauchy'nth test,Gauss test,cauchy's integral test,cauchy's condensation test+ class test
JULY	Alternating series :Leibnitz's test,absolute and conditional convergence Arbitrary series: Abel's lemma,Abel's test,Dirichlet's test,Insertion and removal of parenthesis, re-arrangement of terms in a series,Dirichlet's thm,Riemann's Re-arrangement thm,convergence and absolute convergence of infinite products
JULY	Revisionofsomeimportanttopic +test

LESSON PLAN
APRIL 2022 to JULY 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: PRAGATI
Class and Section: B.Com. 1st year (2nd Semester), Sec-A
Subject: Mathematics
Paper: Business Mathematics-II
APRIL
Chapter: 1- "
Exercise and problem related to permutation
Chapter- combination
Assignment-1

MAY
Chapter- Binomial Theorm
Exercise of binomial theorm
Linear inequality
Solution of linear inquality in system of two variable **Test**

LESSON PLAN
APRIL 2022 to JULY 2022

JUNE
Chapter - linear programming
Formulation of equation
Graphical method of solution
Mixed constraints solution
DATA INTRODUCTION
CLASSIFICATION AND TABULATION
Assignment-2

JULY
Graphical representation of data
Data interpretation
Revision of all chapters

LESSON PLAN
APRIL 2022 to JULY 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor:Pragati
Class and Section:BA2rdyear (4th Semester)
Subject: Mathematics
Paper:Special functions and integral transforms
April
Chapter-Power Series
Chapter- Bessel equation and function
Chapter- Legendre's equation
Assignment-1

May
Chapter- Hermite's equation
Exercise of Hermite's equation
Chapter- Laplace transforms
CHAPTER- inverse Laplace transforms **Test**

LESSON PLAN
APRIL 2022 to JULY 2022

June
Chapter - Inverse Laplace transforms
Chapter - Use of laplace transforms in integral equations
Chapter- Solution of differential equations by Laplace transforms
Assignment-2

July
Chapter- Fourier transforms
Chapter - Solution of differential equations by fourier transforms
Revisionof all chapters

LESSON PLAN

SESSION	APRIL 2022 TO JULY 2022
TEACHER NAME	Poonam Devi
CLASS	B.SC. 1ST YEAR
SECTION	D
SUBJECT	MATHEMATICS
PAPER	VECTOR CALCULUS
SEMESTER	2ND
APRIL	Scalar and Vector product of three and four vectors , Reciprocal vectors. Vector Differentiation , Scalar and Vector Valued point functions , derivative along a curve , directional derivatives. + 1st Assignment
MAY	Gradient of a scalar point function , Gradient , Divergence and curl of vector point function . Sums , Product and their related vector identities , Laplacial Operator. + Test
JUNE	Orthogonal curvilinear co-ordinates , Gradient , Divergence , curl and Laplacian operators in terms of orthogonal curvilinear , cylindrical and spherical co-ordinates. Vector Integration . + 2 nd Assignment
JULY	Theorem of Gauss , Green , Stokes and problems based on these. & Revision

LESSON PLAN

April 2022 to July 2022

Govt. P.G college, JIND
Name of the Assistant/Associate Professor: Poonam Devi
Class and Section: B.Sc. 1st year (2nd Semester), Sec-D
Subject: Mathematics
Paper: Ordinary Differential Equations

April

Chapter: Section 1
Geometrical meaning of a differential equation. Exact differential equations, integrating factor. First order higher degree equations solvable for s,y,p. Lagrange's equations, Clairaut's equations. Equations reducible to Clariaut's form. Singular solutions.

May

Chapter- Section 2
Homogeneous linear ordinary differential equations. Equations reducible to homogeneous.
system of two variable

June

Chapter – Section 3
Linear differential equations of second order. Reduction to normal form. Transformation fo the equation by changing the dependent variable / independent variable. Solution by operators of non-homogeneous liner differential equations.

July

Chapter - 4
Ordinary simultaneous differential equations. Soution of simultaneous differential equations involving operators x (d / dx) or t (d / dt) ete. Simultaneous equation fo the form ds/P = dy/W = dz/R. Total differential equations. Condition for Pdx = Qdy = Rdz = 0 to be exact.
Revision of all chapters

LESSON PLAN
APRIL 2022 to JULY 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor:Pragati
Class and Section:Bca 2nd year
Subject: Mathematics
Paper:Computer oriented statistical methods
April
Chapter-Probability
Chapter- Data types
Chapter- Sampling
Assignment-1

May
Chapter-Statistical Interference
Chapter-Point estimation
Chapter- Interval estimation
CHAPTER- Testing hypothesis **Test**

LESSON PLAN
APRIL 2022 to JULY 2022

June
Chapter - T-test,F-test
Chapter - Chi-sqaure test,One way Anova
Chapter- Two way anova,Single sample
Assignment-2

July
Chapter- Sample test for gaussian parameters
Chapter - Two sample test for gaussian parameters
Revisionof all chapters

LESSON PLAN
APRIL 2022 to JULY 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor:Pragati
Class and Section:Bsc2nd year(B)
Subject: Mathematics
Paper:Programming in C and Numerical Methods
April
Chapter-Computers:A general Introduction
Chapter- Introduction to C
Chapter- Data-types
Assignment-1

May
Chapter-Operators and Expressions
Chapter-Decision Control Structures
Chapter- Loops
CHAPTER- Functions **Test**

LESSON PLAN
APRIL 2022 to JULY 2022

June
Chapter - Solution of algebraic and transcendental equation
Chapter - Bisection method,Regula falsi method, Secant method
Chapter- Newton-Rapshon method
Assignment-2

July
Chapter- Simultaneous linear algebraic equations
Chapter - gauss sedial method, Relaxation method
Revisionof all chapters

LESSON PLAN
APRIL 2022 to JULY 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor:Raj kamal
Class and Section:BSc 2rdyear (4th Semester), Section -B
Subject: Mathematics
Paper:Special functions and integral transforms
April
Chapter-Power Series
Chapter- Bessel equation and function
Chapter- Legendre's equation
Assignment-1

May
Chapter- Hermite's equation
Exercise of Hermite's equation
Chapter- Laplace transforms
CHAPTER- inverse Laplace transforms **Test**

June
Chapter - Inverse Laplace transforms
Chapter - Use of laplace transforms in integral equations
Chapter- Solution of differential equations by Laplace transforms
Assignment-2

July
Chapter- Fourier transforms
Chapter - Solution of differential equations by fourier transforms
Revisionof all chapters

LESSON PLAN
APRIL 2022 to JULY 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor:Raj kamal
Class and Section:BSc 2rdyear (4th Semester), Section -A
Subject: Mathematics
Paper:Special functions and integral transforms
April
Chapter-Power Series
Chapter- Bessel equation and function
Chapter- Legendre's equation
Assignment-1

May
Chapter- Hermite's equation
Exercise of Hermite's equation
Chapter- Laplace transforms
CHAPTER- inverse Laplace transforms **Test**

June
Chapter - Inverse Laplace transforms
Chapter - Use of laplace transforms in integral equations
Chapter- Solution of differential equations by Laplace transforms
Assignment-2

July
Chapter- Fourier transforms
Chapter - Solution of differential equations by fourier transforms
Revisionof all chapters

LESSON PLAN

SESSION	APRIL 2022 TO JULY 2022
TEACHER NAME	REENA DEVI
CLASS	B.SC. 1ST YEAR
SECTION	B & C
SUBJECT	MATHEMATICS
PAPER	ORDINARY DIFFERENTIAL EQUATIONS
SEMESTER	2ND
APRIL	Exact differential equations , equations of first order but not of first degree , Orthogonal Trajectories + 1st Assignment
MAY	Linear Differential Equations with constant Co-efficients , Homogeneous Linear Equations + Test
JUNE	Linear Differential Equations of Second Order , Ordinary Simultaneous Differential Equations + 2nd Assignment
JULY	Total Differential Equations & Revision

LESSON PLAN

SESSION	APRIL 2022 TO JULY 2022
TEACHER NAME	REENA DEVI
CLASS	B.SC. 1ST YEAR
SECTION	B & C
SUBJECT	MATHEMATICS
PAPER	VECTOR CALCULUS
SEMESTER	2ND
APRIL	Scalar and Vector product of three and four vectors , Reciprocal vectors. Vector Differentiation , Scalar and Vector Valued point functions , derivative along a curve , directional derivatives. + 1st Assignment
MAY	Gradient of a scalar point function , Gradient , Divergence and curl of vector point function . Sums , Product and their related vector identities , Laplacial Operator. + Test
JUNE	Orthogonal curvilinear co-ordinates , Gradient , Divergence , curl and Laplacian operators in terms of orthogonal curvilinear , cylindrical and spherical co-ordinates. Vector Integration . + 2nd Assignment
JULY	Theorem of Gauss , Green , Stokes and problems based on these. & Revision

LESSON PLAN
April 2022 To July 2022

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: Reena Rani
Class and Section: B.Com. 1st year (2nd Semester), Sec B,D
Subject: Mathematics
Paper: Business Mathematics-II
APRIL
Chapter: exercise of permutaion
Exercise and problem related to combination Assignment -1st
MAY
Chapter- Binomial Theorm
Exercise of binomial theorm
Linear inequality Class Test
Solution of linear Inquality in system of two variable
JUNE
Chapter - linear programming
Formulation of equation
Graphical method of solution, Assignment-2nd
Mixed constraints solution
DATA INTRODUCTION
CLASSIFICATION AND TABULATION
DIAGRAMATIC REPRESENTATION OF DATA
JULY
Graphical representation of data
Data Interpretation
Revision of all chapters

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: Reena Rani
Class and Section: BSc 3rd year (6th Semester),section – B&C
Subject: Mathematics
Paper: DYNAMIC

April

Chapter Section- 1
Velocity and acceleration along radial, transverse, tangential and normal directions. Relative velocity and acceleration.simple harmonic motion. Elastic strings.
Problems on chapters
Assignment - 1

May

Chapter Section- 2
Mass, Momentum and Force. Newton's laws of motion. Work,power and energy.definitions of conservative forces and impulsive forces.
Problems on chapters
TEST

June

Chapter Section- 3
Motion on smooth and rough plane curves. Projectile motion of a particle in a plane.Vector angular velocity.
Problems on chapters

July

Chapter Section- 4
General motion of a rigid bboady : central orbits, Kepler's laws of motions. Motion of a particle in three dimensions. Acceleration in terms of different co-ordinate systems.
Problems on chapters

LESSON PLAN

SESSION	APRIL 2022 TO JULY 2022
TEACHER NAME	REENA DEVI
CLASS	B.SC. 1ST YEAR
SECTION	B & C
SUBJECT	MATHEMATICS
PAPER	VECTOR CALCULUS
SEMESTER	2ND
APRIL	Scalar and Vector product of three and four vectors , Reciprocal vectors. Vector Differentiation , Scalar and Vector Valued point functions , derivative along a curve , directional derivatives. + 1st Assignment
MAY	Gradient of a scalar point function , Gradient , Divergence and curl of vector point function . Sums , Product and their related vector identities , Laplacial Operator. + Test
JUNE	Orthogonal curvilinear co-ordinates , Gradient , Divergence , curl and Laplacian operators in terms of orthogonal curvilinear , cylindrical and spherical co-ordinates. Vector Integration . + 2nd Assignment
JULY	Theorem of Gauss , Green , Stokes and problems based on these. & Revision