Name of the Assistant Professor: Mr. Bhagwan Dass

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

Subject: Mathematics

Paper: Linear Algebra

February 2023

Topics - Vector spaces, subspaces, Sum and Direct sum of subspaces, Linear span, Linearly Independent and dependent subsets of a vector space. Finitely generated vector space, Existence theorem for basis of a finitely generated vector space, Finite dimensional vector spaces, Invariance of the number of elements of bases sets, Dimensions, Quotient space and its dimension.

March 2023

Topics - Homomorphism and isomorphism of vector spaces, Linear transformations and linear forms on vector spaces, Vector space of all the linear transformations Dual Spaces, Bidual spaces, annihilator of subspaces of finite dimensional vector spaces, Null Space, Range space of a linear transformation, Rank and Nullity Theorem,

April 2023

Topics- Algebra of Liner Transformation, Minimal Polynomial of a linear transformation,

Singular and non-singular linear transformations, Matrix of a linear Transformation,

Change of basis, Eigen values and Eigen vectors of linear transformations.

May 2023

Topics- Inner product spaces, Cauchy-Schwarz inequality, Orthogonal vectors, Orthogonal complements, Orthogonal sets and Basis, Bessel's inequality for finite dimensional vector spaces, Gram-Schmidt, Orthogonalization process, Adjoint of a linear transformation and its properties, Unitary linear transformations.



Teacher Name - 1	Lesson plan of Vector Calculus Feb. 2023 to May 2023 Class - B.Sc Ist Year (2nd Se Section - Mrs. Mukesh Kumoni De	m.) bt - Mathematics
Month	Unit and Chapter Name	
February	Unit-Ist Chapter-Scalar and Vector p three vectors, Product of f Reciprocal Vector, Scalar value Differentition of Vectors	moduct of jour vectors, ued functions,
March	Unit-2nd Condiant of Scala	e boint function
3 	Chapter- Gradient of Sentin geometrical interpretation of Divergence and Curl of Ve Gunction Assignment-I	f gradø, ector point
April	Unit-3 Curitilineage Ca-Dag	linates
May	Assignment-II Test Unit-IVth Chapter - Vector integration, d and Grauss's, Green's and S	line integral tope Theorems

Teacher Sign

LESSON PLAN Sersion - 2022-2023 B.C. Jind Name of the Assistant/Associate Bofessor: Mutest Redhu class and Section : B.Sc 2nd (Sec A) Subject : Mathematics Paper; Sequences and Series February: Topology of Real Numbers. Boblem related to chapter. March: Sequences and Infinite Series Assignment - Ist April: Alternating Series and Arbitrary Series Assignment - 2nd Test May : Infinite Products Problem related to chapter Revision Teacher's Sign

Lesson Plan - B. Sc 6th sem and B.A 6th sem. Department of Mathematics Rena Rani (Ext. led.) Paper - Dynamics Session - 2022-2023 (Even) February - Velocity and acceleration along sodial, transverse, tangential and normal directions. Relative velocity and acceleration, simple harmonic motion. March:-Elastic Strings, Mars, Momentum and Force. Newton's low of motion. Work, Power and energy definitions of conservative and Impulsive forces. Problems on Chapters. Assignment -1st April :- Motion on smooth and sough plane cuoues. Bojection motion of a particle in a plane. Vector Angular velocity. central orbits, Kepler's low of motion. Assignment - Ind, Unit-Test May :- Motion of a farticle in Three dimensions. Acceleration in terms of different co-ordinate system. Revision of chapters.

Reena Rani

Deptarment of Mathematics Reena Rani (Ext. led.) Lesson Plan - B. am Ist (sec-B&C) Paper-demotorBusines Mathematics Session - 2022 - 2023 (Even) Unit and chapters Name. Febsuary Permutation and Combinations and Binomial Theorem. March: chapter - Linear Inequalities in two variables and linear Bogsamming, Data Introductor Assignment - Ist April Chapter - Data - classification and Tabulation and Diagrammatic Representation of Data Assignment - 2nd Test May Chapter - Graphical Representation of Data and Data Interpretation Problems and Receision

Reence Rami

)	Lesson Plan of Dynamics Feb 2023 to May 2023 Class - Bisc 3rd year (6thsemi)
Teacher Na	ne-Mrs. Pragati Depl-Mathematics
M - + H	Unit and Chapter Name
February	Unit-Ist Chapter-Velocity and acceleration along radial, transverse, tangential and normal directions. Simble harmonic motion. Elastic Strings
March	Unit-2nd Chapter- Mass, Momentum and Force. Newton's Laws of motion. Work, power and energy Definitions of conservative forces and impulsive forces. Assignment-I
April	Unit-3rd Motion on Smooth and rough plane curves. Projectile motion of a particle in a plane Assignment-2 Test
May	Unit-IIIH Chapter - General motion of a rigid body: Central Orbits, Kepler's Laws of Motions, Motion of a particle in three climensions Problems on chapters
Teacher Sig	Ŋ

	Lesson plan
	Element of Business Mathematics
	Feb. 2023 to May 2023
	Class - B. Com Ist year (2nd Sem.)
Teacher Name-Mas	PRAGATI Section - D Dept-Mathematics
Month	Unit and Chapter Name
February	Permutation and Combinations and
0	Binomial Theorem.
March	Chapter - Linear Inequalities in two variables
	and linear programming
	Assignment-I
April	Chapter - Data - Introduction, Classification
'	and Tabulation and Diagrammatic
	Representation of Data
	Assignment-2nd
d and	Test
May	Chapter-Graphical Representation
U I	Data and Data Interpoetant
	Problems on Chapters
D-	
Teacher Sig	n

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	Lesson plan
	Vector Calculus
	Feb 2023 to May 2023
	Class-BBCISt year (2nd Sem)
Teacher Name.	- Mospragation - CLD Dept-Mathematics
Month	Unit and Chapter Name
Lobrugey	Unit-Ist
	Chapter-Scalar and Veetor product of three
	Vectors, Product of four vectors, Reciprocal
	Vector, Scalor valued functions, Differentiation
	of Vectors
March	Unit-2nd
110/0011	Gradient of a Scalar point function, geometrical
	interpretation of grad of, Diveogence and and
	of vector point function. Graduent, and their
	and curl of sums and product and mark
	related vector identifies
Alavil	Unit-3
(p) (c)	Chapter - Curvillinear Co-ordinales
	Accianment-I
1	Tost
1	Tuth Tuth
May	Unit - 1211
v	Chapter - Vector In and Stoke's Theorems
	and Grauss's, Grieding
	113Significant - II
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1 - 8 CI	an an
Teacher	<i>J</i>

	Lesson plan of Elements of computer Oriented Statistical Methods
	Feb. 2023 to May 2023
Month	CARTICIASS - B.CA2nd Year (Uth Sent - Mathematics Unit and Chapter Name
February	Chapter - Basic Statistics, Measure of Central Tendency, Measure of Dispersion and Moments and Moment Georerating Function
March	Chapter - Probability Distributions, Correlation and Regression Assignment - I
April	Chapter - Statistical Inference, Chi- Square Test and Curve Fitting Assigment-II Test
May	Chapter - Analysis of Variance (ANOVA) and Baye 1s Theorem in Decision making & Fore casting Techniques Revisim
Teacher Sign	

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: Anil kumari

Class and Section: BSc 3rd year (6th Semester), section – A

Subject: Mathematics

Paper: DYNAMICS

FEBRUARY

Chapter Section-1

Velocity and acceleration along radial, transverse, tangential and normal directions. Relative velocity and acceleration.simple harmonic motion. Elastic strings.

MARCH

Chapter Section-2

Mass, Momentum and Force. Newton's laws of motion. Work, power and energy.definitions of conservative forces and impulsive forces.

ASSIGNMENT 1st

APRIL

Chapter Section-3

Motion on smooth and rough plane curves. Projectile motion of a particle in a plane.Vector angular velocity.

Assignment – 2

Test

MAY

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

Anderkumme

Name of the Assistant/Associate Professor: Anil kumari

Class and Section: BSc 2ND year (4th Semester) SECTION -B & B.A.

Subject: Mathematics

Paper: SPECIAL FUNCTIONS & INTEGRAL TRANSFORMS

FEBRUARY

Chapter Section- 1

Bessel equation and its solution : Bessel functions and their properties conversance, recurrence, relations and generating functions, orthogonality of Bessel functions.

MARCH

Chapter Section- 2

Legendre and Hermite differential equations and their solutions: Legendry and Hermites functions and their properties, recurrence, relations and generating functions, orthogonality of Legendre and Hermite polonomials.

ASSIGNMENT 1st

APRIL

Chapter Section- 3 Laplace transform: Existence theorem for Laplace transform, linearity of the laplace transform, shifting theorms, laplace transforms of derivatives and integrals, differentiation and integration of laplace transforms, convolution theorem.

Assignment - 2

Test

MAY

Chapter Section- 4

Fourier transforms of derivatives relations between Fourier transforms and LaPlace transforms Parseval identity for Fourier transforms.

Problems on chapters

Amilkumen

Name of the Assistant/Associate Professor: Anil kumari

Class and Section: BCA (4th Semester)

Subject: Mathematics

Paper: DISCRETE MATHEMATICS

FEBRUARY

Chapter Section-1

Set theory, Relations and functions: Their Properties, graph and theory.

MARCH

Chapter Section- 2

Propositional Calculus and Counting: Their types, principals and methods.

ASSIGNMENT 1st

APRIL

Chapter Section- 3

Advanced Counting Techniques, Latices and Boolean Algebra: their relations, functions, diagram and principals.

Assignment – 2

Test

MAY

Chapter Section-4

Graphs and tree: Their types, Properties, Notations and Representation.

Problems on chapters

Anil Luman

LESSON PLAN

Feb. to May 2023

Gov. P.G college, JIND

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

March	
Chapter- Binomial Theorm	
Exercise of binomial theorm	
Linear inequality	
Solution of linear inquality in system of two variable Test	
Chapter - linear programming Formulation of equation	

April	
Mixed constraints solution	
DATA INTRODUCTION	
CLASSIFICATION AND TABULATION	
Assignment-2	

Мау	
Graphical representation of data	
Data interpretation	
Revision of all chapters	



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See. 12

LESSON PLAN Feb. 2023 May 2023

Sec.

Gov. P.G college, JIND

Name of the Assistant/Associate Professor: Mann (Lavy)	
Class and Section:Bsc2nd year	
Subject: Mathematics	
Paper:Programming in C and Numerical Methods	
Feb.	
Chapter-Computers:A general Introduction	
Chapter- Introduction to C	
Chapter- Data-types	

March	
Chapter-Operators and Expressions	
Chapter-Decision Control Structures	
Chapter- Loops	
CHAPTER- Functions	
Test	
April	
Chapter - Solution of algebraic and transcen	dert i source
Chapter - Bisection method Regula falsi mo	the later of the l
Chapter- Newton-Rapshon method	nice, where chieshed
Assignment-2	
Мау	
Chapter- Simultaneous linear algebraic equa	10.00
Chapter - gauss sedial method, Relevation	
Revisionof all chapters	enøq

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Neen

Deptt. of Mathematics 2022-23 EVEN Neeru (Guest Lecturer) Lesson Plan - B.A. B.Sc. 2nd year 4th Sem) Paper - Sequence & Series

February - Topology of Real Numbers

March - Sequences Jufinite Series Assignment 1. Apoil - Infinite Series (Continueed) Alternating Series Astornating Series Class-Test May - Infinite Ser Products Assignment 2. Revision

Neen

(Sept: of Maths) GURDEEP (Ext. Lect) - 2022-23 Lesson Plan BA/BSC. Incl sem Sec-A,C,D. Paper - Number Theory and Thignometry.

feb ruary.> * Divisbility. congouences × chinese semainder theosm * Femat, wilson's theosm March -> × Eller function and Residue system, * some function of Number theory. ٭ Quadratic Residue and Reciprocity Law * Assignment - Ist. \ast APOIL-> Se moviers's Theorem and Application * Gioculas function of a complex variable X Hyperbolic Function \ast Logsathim of complex quantity. * Assignment Ind , Test * May > * Invesse circular and Hyperbolic func Summation of Series × Revision.

Gordeel

(But Lect Matty)

Dept of Lesson	Mattles, GURDEEP (Ext. lecturer) - 2022-23 Plan B.A 4th Sem.
Paper-	Programing in C Z Numerical Methods
February-	 * Computer: a General Introduction * Introduction to C. * Data - Types.
	* Decision control structures.
March ->	* LOOPS. * Functions.
	* The make C for constructions

APSiL->

May >

Arrays. × Publetting of Strings * structures and Unions. * Pointers * files in C. * Solution of Algebric and Transiendental × Equations lineas Algebraic Emotions Simultaneous × Revision ×

Gureleef (Ext Lectures Mathy)

(Dept. of Mathe) ASAT SINGH (EXt. lect.) - 2022-23 Lession Plan BSC-6th Sem & B.A. - 6th Sem Paper - Real Analysis. BSC-6th, Section-A, B, C, 8BA-6th. February :- Jacobians, Beta & Gramma Functions. March: - Double and Triple Antegral, Fousier Series. Assignment - I April: - Calculus of Complex functions, Elementity Functions and Mobius Transformations. Assignment - II, Test May: - Critical Mappings.

Revision.

ATas Smgh. (Dept. of mathy) Ext. lect.).

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Gov⊱College, J≱IJ

Name of the Assistant/Associate Professor : Rai kamal
Class and Section:BSc 2rd year (4th Semester) Section A 0.0
Subject: Mathematics
Paper:Special functions and integral transforms
February 2023
Chapter-Power Series
Chapter- Bessel equation and function
Chapter- Legendre's equation
Assignment-1
March 2023
Chapter- Hermite's equation
Exercise of Hermite's equation
Chapter- Laplace transforms
CHAPTER- inverse Laplace transforms

Test

April 2023	
Chapter - Inverse Laplace transforms	•
Chapter - Use of laplace transforms in integral equations	
Chapter- Solution of differential equations by Laplace transformer	
Assignment-2	

May 2023	
Chapter- Fourier transforms	
Chapter - Solution of differential equations by	formion to a f
Revisionof all chapters	iourier atansforms

Roj Kanel)

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