Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – MS. SILKY PURI Class- B.SC.I/B.A.I

Subject- MATHS

Paper- BM-121(NUMBER THEORY AND TRIGNOMETRY)

February,2023 1 st Week 1Feb-4 Feb	Introduction to number theory:introduction to principle of mathematical induction, related examples. definition of divisibility and related theorems and results. division algorithm. definition of greatest common divisor and least common multiple. some theorems on G.CD. and L.C.M.
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	GAUSS theorem and some related theorem.examples based on
6Feb -11Feb	theorems.definition:unit,prime no.,composite no.co-prime,twin prime,perfect number,some theorems on prime numbers.Euclid first theorem,Euclid second theorem,fundamental theorem of arithmetic.
12Feb, 2023	Sunday
3rd Week	Standard form of canonical form and some related
13Feb -17 Feb	theorems.congruences:definition of congruence and related theorems.examples based on congruence.linear congruence and related theorems.examples based on linear congruences.
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4 th Week 20Feb -25 Feb	Linear Diophantine equations and related theorems and examples.Fermat's, Wilson's and Chinese remainder theorem. Discuss about examples and exercises. simultaneous linear congruences. EULER'S function and RESIDUE systems (mod m).
26 Feb, 2023	Sunday
5th Week	Residues ,least residues system,complete residue system,reduced
27 Feb -28 Feb	residue systems, some theorems based on complete residue and reduced residue systems. euler's generalization of fermat's theoremand related examples.

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher –MS.SILKY PURI Class- B.SC.I/B.A.I Subject- - MATHS Paper- BM-121(NUMBER THEORY AND TRIGNOMETRY)

March, 2023 1stWeek 1March -4 March	Some functions of number theory:greatest integer function(bracket function),theorems on bracket function.De polignac's formula and related examples.divisor function of n ,sigma function of n,perfect no. and related theorems .mobius function,mobius formula,related examples.
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Quadratic residues and quadratic reciprocity law:quadratic congruence and related theorems.quadratic residues and related theorems.legendre symbol and related theorems.gauss lemma and related theorems.examples based on gauss lemma .gauss reciprocity law and based examples.
19 March,2023	Sunday
4 th Week 20March-25 March	De moivre's theorem and its applications:examples and exercises based on de moivre's theorem .roots of a complex no.solutions of equations.expansions of trigonometry functions.formation of equations.circular functions of a complex variable:properties of exponential functions.periodicity of circular functions.
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev
26 March, 2023 30 March, 2023	Sunday Ram Navmi
5 th Week 27 March- 31 March	Hyperbolic functions:periodicity of hyperbolic functions.relation between hyperbolic functions and circular functions.separate into real and imaginary parts of circular and hyperbolic functions.logarithm of a complex quantity:logarithm of complex,positive real and negative real number.

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher –MS. SILKY PURI Class-B.SC.I/B.A.I Subject-MATHS

Paper- BM-121(NUMBER THEORY AND TRIGNOMETRY)

April, 2023 1 st Week 1 April, 2023 2 April, 2023	Law of logarithm for complex numbers and based examples.general exponential function,general logarithm function.inverse circular and inverse hyperbolic functions:general value and principle value,relation between inverse functions.inverse hyperbolic functions,general value and principle value. Sunday
2 nd Week 3 April -8 April	Inverse hyperbolic functions in terms of logarithms.gregory's series, another form of gregory's series, general value.evaluation of pi and related examples.summation of series: series of sines and cosines of angles which are in A.P. finding the sum of cosines of n angles when the angles are in A.P.
4 April, 2023 9 April, 2023	Sunday
3 rd Week 10April - 15April	Related examples and exercises to these topics.method of differences and related examples.C+iS method of summation.series depending upon the G.P.or the binomial series.series depending upon the exponential ,sine and cosine series.series depending on logarithmic series.summation of series depending upon tan inverse x.summation of series depending on hyperbolic series.
14 April, 2023 16 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday
4 th Week 17 April -21 April	Sessional Exams
22 April, 2023 23 April, 2023	ld-Ul-Fitr/ParshuramJayanti Sunday
5 th Week 24 April -29 April	Revision and tests.
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher –MS. SILKY PURI Class- B.SC.I/B.A.I Subject-MATHS Paper- - BM-121(NUMBER THEORY AND TRIGNOMETRY

May, 2023 1 st Week 1 May -6 May	Revision and tests.
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Revision and tests.
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathemaics

Paper- BM-122

Class- B.A/B.Sc I Semester-

February,2023 1 st Week 1Feb-4 Feb	Introduction to Differential Equations, Types of Differential Equations Formation of Differential Equations and Geometrical Meaning
5Feb, 2023 2 nd Week	Guru Ravidas Jayanti, Sunday Theorems and Questions based on Formation of Differential Eq.
6Feb -11Feb	Exact Differential Equations and Questions based on it Discussion of Problems
12Feb, 2023	Sunday
3rd Week	Introduction to Equations of First Order but not of First Degree
13Feb -17 Feb	Theorems based on Equations of First Order but not of First Degree Methods of solving Equations of First Order with degree higher than one
	Solution of Equations solvable for x
	Methods of solving equations solvable for y and problems based on it. Problem discussion
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4 th Week 20Feb -25 Feb	Introduction to Lagrange's Equation and method for solving such Equations
	Introduction to Clairaut's Equation and method for solving such Equations
	Equations reducible to Clairaut's form and problems based on it
	Singular Solution, Discriminant, Questions related to p-Discriminant and c-Discriminant
	Discussion of Problems
26 Feb, 2023	Sunday
5 th Week 27 Feb -28 Feb	Methods for finding Orthogonal Trajectories and Questions based on it Discussion of Problems

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathemaics

Paper- BM-

Class- B.A/B.Sc I Semester

March, 2023	Introduction to Linear Differential Equations with Constant
1stWeek	Coefficients, Differential Operator
1March -4 March	Complete solution of Linear Differential Equations
2 nd Week	Holi Break
5 March -12	
March, 2023	
Waten, 2025	
3 rd Week	Auxiliary Equations, Methods for finding roots of Auxiliary
13 March-18	Equations and
March	Complete solution of Linear Differential Equations Inverse operator, Theorems based on Linear Differential Equations.
March	Problem Discussion
	Introduction to the concept of Particular Integral and discussion of
	different
	methods of finding Particular Integral
	Questions based on finding solutin of Linear Differential Equation
19 March,2023	Sunday
4 th Week	Questions based on finding solutin of Linear Differential Equation
20March-25	Class Test
March	Introduction to Homogeneous Linear Differential Equations
	Discussion of methods of solving Homogeneous Linear Differential
	Equations,
	Questions based on solution of Homogeneous Linear Differential
	Equations Discussion of Problems
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5th Week	Equations reducible to Homogeneous Linear form
27 March- 31	•
March	Discussion of methods for solving Equations reducible to
IVIAI CII	Homogeneous Linear form.

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathemaics

Paper- BM-

Class- B.A/B.Sc I Semester

April, 2023 1 st Week 1 April, 2023	Definition of Linear Differential Equations of Second order and its examplesSolution of Linear Differential Equations of Second order by changing the dependent variable Question Discussion
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Solution of Linear Differential Equations of Second order by changing theindependent variable and problems related to it.Introduction to the method of Variation of Parameters.Solution of Linear Differential Equations of Second order by the method of undetermined coefficients Different ways of finding solution of these equations, questions based on it
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Introduction to Ordinary Simultaneous Differential Equations-
10April -	Definition and Examples, Methods of solving Simultaneous Differential
15April	Equations with constant coefficients and questions related to it Question Discussion, Solution of Simultaneous Differential Equations using Differential Operator, Solution of Simultaneous Differential Equations using Differential Operator
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21 April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	Problem Discussion
24 April -29	Class Test
April	Solution of Simultaneous Differential Equations using Method of
	Differentiation, Discussion of some other methods for solving
	Simultaneous Differential Equations and questions related to it
20 Amril 2022	Discussion of problems
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathemaics

Paper- BM-

Class- B.A/B.Sc I Semester

May, 2023 1 st Week 1 May -6 May	Solution of Simultaneous Differential Equations using Method of finding the second integral with the help of first integral Discussion of Problems Total Differential Equations- Definition and Examples Theorem for the Integrability of Total Differential Equations and questions based on it Concept of Condition for Exactness Solution of Total Differential Equations by using method of inspection and problems related to it
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Discussion of Problems Solution of Total Differential Equations by regarding one variable as constantout of three variables Questions discussion Class Test Method for solving Homogeneous Equations and problems related to it Method for solving Homogeneous Equations and problems related to it
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023) Name of the Teacher – MS. SILKY PURI

Name of the Teacher – MS. SILKY PURI Class- B.SC.I/B.A.I Subject-MATHS Paper-BM-123 (vector analysis)

February,2023 1st Week	Multiple product of vectors.
1Feb-4 Feb	Revision of scaler and vectors, Definition, Types and properties.
	Questions.
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Revision continued of vectors, Direction cosines and direction cosines
6Feb -11Feb	and direction ratios, Scaler and vector product. Triple
	product,Determinant form and properties of scaler triple product
	.Continued
12Feb, 2023	Sunday
3rd Week	Geometrical interpretation of scaler triple product, Volume of a
13Feb -17 Feb	tetrahedron & based theorem.Numerical based on scaler triple product.
18 Feb, 2023 19 Feb,2023	Sunday
4th Week	Numerical based on scaler triple product.
20Feb -25 Feb	Vector triple product, Expansion formula, Numericals
	Numericals continued on vector triple product
	Unsolved questions of vector triple product
	Scaler product of four vectors, vector product of four vectors, related examples.
26 Feb, 2023	Sunday
5 th Week 27 Feb -28 Feb	Unsolved numerical of product of four vectors.
21100-20100	Reciprocal system of vectors and their properties.
	Differentiation of vectors, Scaler and vector functions, Based theorems

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – MS.SILKY PURI

Class- B.SC.I/B.A.I Subject- MATHS

Paper- BM-123(vector analysis)

March, 2023	Derivative of a vector function w.r.t. scaler successive derivative
1stWeek	based theorems.Continued
1March -4 March	Derivative of a vector function w.r.t. scaler successive
	derivative,Based theorems
	Questions.
2 nd Week	Holi Break
5 March -12	
March, 2023	
3 rd Week	Sessionals
13 March-18	Curves in space, Tangent vectors, Velocity and acceleration
March	Numericals on tangent vector, velocity and acceleration
	Gradient, Divergence and curl.
	Partial derivative of vector function & rule.
19 March,2023	Sunday
4 th Week	Gradient, Divergence and curl
20March-25	Partial derivative of vector function & rules.
March	Two vector differentiation operator, Gradient of the product of two
March	vectors.
	Level surfaces based theorems, Directional derivative of scaler point
	function
	Equation of tangent plane and normal to level surface based
	theorems
	Divergence of vector function and their properties, Numericals.
	Divergence of vector function and their properties, vulnericals.
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
<u> </u>	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Curl of a vector point function & their properties. Numericals
27 March- 31	Second order Differential functions. Laplacian operator, Harmonic
March	function.
	Introduction, Coordinate surfaces and curves, orthogonal curvilinear
	coordinates, condition for orthogality & its unit vectors.
	Arc length, Volume element and area element.
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Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – MS. SILKY PURI Class- B.SC.I/B.A.I Subject-MATHS Paper-BM-123(vector analysis)

April, 2023	Cylindrical & Spherical coordinates, Based numerical
1 st Week	Indefinite and definite integral and based theorems
1 April, 2023	Line integral and based numerical.
11p111, 2020	Numericals continued and work done by force
	Surface integral & numericals
	Volume integral & numericals
	Gauss's divergence theorem.
2 April, 2023	Sunday
2 nd Week	Deductions from Gauss divergence theorem,
3 April -8 April	Green's theorem, Reduction of surface integral to line integral
	Stoke's theorems, Cartesian form in plane, Cartesian form in space
	Green's divergence theorem.
4 April, 2023	Sunday
9 April, 2023	
3 rd Week	Green's Theorem, Reduction of surface integral to line integral
10April -	Stoke's theorem, Cartesian form in plane, Cartesian form in space
15April	Green's theorem in plane is special case of stoke's theorem.
	Continued
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	
24 April -29	Numericals
April	Class Test
	REVISION
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – MS. SILKY PURI Class- B.SC.I/B.A.I Subject- MATHS Paper- BM-123(vector analysis)

May, 2023 1 st Week 1 May -6 May	Numericals
1 May -0 May	Class Test
	REVISION
7 May, 2023	Sunday
2 nd Week	Numericals
8 May -13 May	Class Test
	REVISION
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

KVA DAV College for Women, Karnal **Lesson Plan For The Even Semester** (February to May, 2023) Name of the Teacher – MS. SILKY PURI

Class- BBA-I **Subject- MATHS**

Paper- ELEMENTS OF BUSINESS MATHS-II

February,2023	18 OF BUSINESS MATHS-II
1st Week	Cartesian systems of rectangular coordinates :rectangular axes and
1Feb-4 Feb	
11.00-4 1.00	origin, coordinates of a point , distance between two
	points.circumcentre with examples.internal division and external
	division ,section formula, midpoint formula with examples, centroid of
	a triangle,incentre of a triangle and find these coordinates of a
	triangle.
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Straight line:slope of a line passing through two given points.parallel
6Feb -11Feb	and perpendicular lines.coolinearity of three points with
	examples.intercepts:equation of a line parallel to X-axis and Y-axis
	,slope –intercept form of a line ,one point form,two point form of a
	line.
12Feb, 2023	Sunday
3rd Week	Intercept form of a line ,equation of a line in perpendicular and
13Feb -17 Feb	normal form.equation of a line in symmetric form or parametric form
	with examples.general equation of a straight line :reduction of general
	equation to the standard form, intercept form, normal form.
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4th Week	Angle between two lines:condition of parallelism and perpendicularity
20Feb -25 Feb	of lines.point of intersection of two straight lines.perpendicular
	distance of a point from a line. Arithmetic progressions: general
	term, finite and infinite sequences. properties of an A.P. with examples
	,representations of terms in A.P.
26 Feb, 2023	Sunday
5 th Week	Sum of 'n' terms of an A.P. ,Arithmetic mean:to insert 'n' A.M.
27 Feb -28 Feb	between two quantities 'a' and 'b', sum of 'n' arithmetic means
	between two numbers. Geometric progression : general term with
	examples.sum of first 'n' terms of G.P.with examples and
	exercises.sum of G.P.upto infinity terms with examples and
	exercises.

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - MS. SILKY PURI

Class- BBA-I

Subject- MATHS

Paper - ELEMENTS OF BUSINESS MATHS-II

March, 2023 1stWeek 1March -4 March	Geometric mean:definition with examples.product of 'n' G.M. between 'a' and 'b'.Application of A.P. and G.P.to business problems.Harmonic progression :general term,harmonic mean:to find the H.M. between two quantities 'a' and 'b'.relation between A.M.,G.M.and H.M.,sigma notation .sum of first n natural numbers.
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Sum of squares of the first n natural numbers, sum of cubes of first n natural numbers. Arithmetico-geometric series: general term, sum of 'n' terms of an arithmetic-geometric series. sum of an infinite arithmetic-geometric series.
19 March,2023	Sunday
4 th Week 20March-25 March	Integration:introduction to definite and indefinite integral and some standard elementary integrals.integration by substitution,integration by parts.partial fractions and their uses in integration.definite integral with examples.Application of integration in business and commerce: determination of cost function and average cost function when marginal cost function is given.
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week 27 March- 31 March	Determination of revenue function and demand function when marginal revenue function is given with examples.consumer's and producer's surplus .the learning curve with examples and exercises.logarithms:definition and some important deductions .some important properties of logarithms:product and quotient formula.

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher - MS. SILKY PURI

Class- BBA-I Subject- MATHS

Paper - ELEMENTS OF BUSINESS MATHS-II

April, 2023 1 st Week 1 April, 2023	Power formula.base changing formula.two systems of logarithms:natural logarithms,common logarithms.rules to find the characteristics and mantissa with examples.tables of logarithms.antilogarithms.
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Compound interest:introduction to simple interest,compound interest.results and formulas for S.I. and C.I. with examples examples and exercises to find S.I.and C.I.when the rate of interest is different for different years.problems on effective rate of interest with examples.
4 April, 2023 9 April, 2023	MahavirJayanti Sunday
3 rd Week 10April - 15April	Problems on depreciation and problems on population with examples and exercises.to check table values for logarithms and anti –logarithms.
14 April, 2023 16 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday
4 th Week 17 April -21 April	Sessional Exams
22 April, 2023 23 April, 2023	ld-Ul-Fitr/ParshuramJayanti Sunday
5 th Week 24 April -29 April	Revision and tests.
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – MS. SILKY PURI Class-BBA-I Subject-MATHS Paper- - ELEMENTS OF BUSINESS MATHS-II

May, 2023 1 st Week 1 May -6 May	Revision and tests.
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Revision and tests.
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (1February to May, 2023)

Name of the Teacher – Ms. Meenu Kalra Subject-MATHS

Paper- MATHEMATICAL FOUNDATIONS-II

Class- BCA-I(SEM II)

February,2023 1st Week 1Feb-4 Feb	Introduction to logical statements.symbolic notation of statements.truth tables.simple and compound statements.truth table for conjunction and disjunction.negation:truth table for negation and negation of compound statements.
5Feb, 2023 2 nd Week 6Feb -11Feb	Guru Ravidas Jayanti, Sunday Implications: conditional statements and biconditional statements. argument: valid argument, fallacy and truth tables. joint denial. tautologies and contradictions.
12Feb, 2023 3 rd Week 13Feb -17 Feb	Sunday Laws of logic:idempotent laws,commutative laws,associative laws,distributive laws,identity laws,complement laws,involution law,de morgan's law,quantifiers:universal,existential quantifiers,negation of statements with quantifiers.
18 Feb, 2023 19 Feb,2023 4 th Week 20Feb -25 Feb	MahaShivaratri Sunday Principle of mathematical induction with examples.groups:introduction to binary operationas and composition tables.some fundamental properties of binary operations.algebraic structure.definition of group with examples.
26 Feb, 2023 5 th Week 27 Feb -28 Feb	Sunday Semi group, finite and infinite groups, order of a group. addition modulo M, multiplication modulo with examples, order of an element of a group, general properties of groups. complexes and subgroups of a group, criterian for a complexto be a subgroup, intersection of subgroup with theorems.

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms. Meenu Kalra Subject-MATHS

Paper- MATHEMATICAL FOUNDATIONS-II

Class- BCA-I(SEM II)

March, 2023 1 st Week 1March -4 March	Cosets:right coset,left coset wit examples,normal subgroups,simple groups,quotient group with examples.homomorphism and isomorphism,kernel of homomorphism.Rings:types of rings with examples.rings without or with zero divisors,integral domain.
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Division ring or a skew field, field with examples, theorems and laws of fields, subrings: characterstic of a ring with examples ideals: definition and examples of ideals, simple ring. principle ideal: principle ideal ring and principle ideal domain. maximal ideal, prime ideal with examples. nilpotent and nil ideals.
19 March,2023	Sunday
4 th Week 20March-25 March	Quotient rings(factor rings),ring homomorphism ,kernel of a ring homomorphism.Matrices:some definitions and types of matrices.basic operations on matrices,scalar multiplication ,negation ,addition and difference of a matrix.multiplication,positive integral powers of matrices with examples
23 March, 2023 26 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev Sunday
30 March, 2023	Ram Navmi
5 th Week 27 March- 31 March	Determinants:determinants of second and third order,minors and cofactors, sarrus diagram,properties of determinants.Matrices(continued):singular and non singular matrices,transpose of a matrix,inverse of a square matrix, symmetric and skew-symmetric matrices with results.

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – Ms. Meenu Kalra

Subject-MATHS

Paper- MATHEMATICAL FOUNDATIONS-II

Class- BCA-I(SEM II)

April, 2023 1 st Week 1 April, 2023	Hermitian and skew —hermitian matrices.rank of a matrix:submatrix of a matrix,elementary operations:row equivalent and column equivalent of a matrix.reduction of a matrix to triangular form,normal form of a matrix,elementary matrices,rank of the product of two matrices.
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Using elementary operations find inverse of a matrix,to calculate PAQ where PAQ is in normal form.application of matrices to solution of system of linear equations:homogeneous and non homogeneous linear equations using inverse of a matrix.solutions of systems of homogeneous and non homogeneous using rank of a matrix.
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Characteristic equation of a matrix :characteristics matrix and
10April -	characteristic polynomial and characteristics equation and
15April	characteristics roots or eigen values of a matrix.characteristics vector or eigen vector or latent vector with examples.scalar polynomial and matric polynomial
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	Cayley-hamilton theorem with examples and verify these equations.some
24 April -29	important theorems:theorems for eigen values and eigen vectors for
April	hermitian matrix,triangular and orthogonal matrix.theorems for
	linearly independent and linearly dependent vectors.diagonalization of a square matrix:definition and examples
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – Ms. Meenu Kalra Subject-MATHS Paper- MATHEMATICAL FOUNDATIONS-II Class- BCA-I(SEM II)

May, 2023 1 st Week 1 May -6 May	Revision and tests.
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Class Test & Revision
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (1February to May, 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- BUSINESS MATHEMATICS

Class- B.ComI(SEM-2)		
February,2023	Linear equations in two variables	
1st Week	Questions	
1Feb-4 Feb	Linear Programming	
	Questions	
	Questions	
	Student problems	
	Problem Discussion	
5Feb, 2023	Guru RavidasJayanti, Sunday	
2 nd Week	Data interpretation	
6Feb -11Feb	Classification and Tabulation	
	Questions	
	Questions	
	Continued	
12Feb, 2023	Sunday	
3rd Week	Data –Introduction, Classification and tabulation	
13Feb -17 Feb	Continue	
	Continue	
	Continue	
	Assignment-1	
18 Feb, 2023	MahaShivaratri	
19 Feb,2023	Sunday	
4th Week	Diagrammatic Representation of data	
20Feb -25 Feb	Continue	
	Continue	
	Problem Discussion	
	Continue	
26 Feb, 2023	Sunday	
5th Week	V	
27 Feb -28 Feb	Continue	
	Continue	
	Continue	
	Problem Discussion	
	Continue	
	Continue	

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- BUSINESS MATHEMATICS

March, 2023	Questions related to diagrams
1 st Week	Continue
1 Week 1March -4 March	Continue
IIviai cii -7 iviai cii	Continue
	Problem Discussion
	Continue
	Continue
	Continue
	Continue
2 nd Week	Holi Break
5 March -12	Hon break
March, 2023	
3 rd Week	Graphical Representation of Data
13 March-18	Continue
March	Continue
	Assignment-2
19 March,2023	Sunday
4 th Week	
20March-25	Permutations and Combinations
March	Continue
	Continue
	Continue
	Continue
	Problems Discussion
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Permutations and Combinations
27 March- 31	Continue
March	Continue
	Continue
	Continue
	Problems Discussion

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- BUSINESS MATHEMATICS

April , 2023	Questions
1st Week	Questions
1 April, 2023	Continue
_	Continue
	Student problems
2 April, 2023	Sunday
2 nd Week	Binomial Theorem
3 April -8 April	Discussion on formulas
	Questions
	Questions
	Questions
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Student Problems
10April -	Continued
15April	Continued
111 1 2000	Continued
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	
24 April -29	Revised topic based on student problems
April	Continued
	Continued
20 4 11 2022	Continued
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – Ms. MEENU KALRA Subject- MATHEMATICS

Paper- BUSINESS MATHEMATICS

May, 2023 1 st Week 1 May -6 May	Questions Questions
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Students Problems & REVISION
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Sequence and series Class- B.A/B.Sc III Semester

February,2023	Sets,Bounded and Unbounded Sets
1st Week	
1Feb-4 Feb	Least upper bound and Greatest lower bound
11 00-4 1 00	Theorems
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Examples
6Feb -11Feb	Problem Discussion
	Neighbourhood of a Point
	Theorems
	Problems
	Test
12Feb, 2023	Sunday
3 rd Week	Examples
13Feb -17 Feb	Interior Point of a Set
	Open Set
	Theorems
	Closed Sets
	Examples
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4th Week	Limit Point
20Feb -25 Feb	Closures
	Theorems
	Problems
	Bolzano Weierstrass Theorem
26 Feb, 2023	Sunday
5th Week	Theorems
27 Feb -28 Feb	Examples
	Compact Set
	Cover and Open Cover
	Theorems
	Examples

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathemaics

Paper- Sequence and series Class- B.A/B.Sc I Semester

March, 2023 1stWeek 1March -4 March 2nd Week 5 March -12 March, 2023	Sequence Convergent Sequence and Divergent Sequence Oscillatory Sequence Examples Problems Test Holi Break
3 rd Week 13 March-18 March 19 March,2023 4 th Week 20March-25 March	Basic Theorems of limits and Squeeze Principle Cauchy First Theorem Cauchy Second Theorem Examples Problems Monotonic Sequence Sunday Nested Sequence Examples Limit Point of a Sequence Cauchy Sequence
23 March, 2023 26 March, 2023 30 March, 2023 5 th Week 27 March- 31 March	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev Sunday Ram Navmi Subsequence Problem Discussion Test Infinite Series Examples

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Sequence and series Class- B.A/B.Sc III Semester

April, 2023 1 st Week 1 April, 2023	Cauchy General Principle of Convergence Geometric Series Series of Positive terms Comparison Test, p-series Test Examples
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Problems D'Alemberts Ratio Test and Examples Cauchy Root Test and Examples Raabes Test and Examples Logarithmic Test and Examples De Morgan's Test and Gauss Test
4 April, 2023 9 April, 2023	MahavirJayanti Sunday
3 rd Week 10April - 15April	Cauchy Integral Test and Cauchy Condensation Test Alternating Series, Leibnitz's Test Absolute and Conditional Convergence Arbitrary Series, Abels Lemma, Abels Test Examples, Dirichlet's Test and Examples Insertion and Removal of Parenthesis, Examples
14 April, 2023 16 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday
4 th Week 17 April -21 April	Sessional Exams
22 April, 2023 23 April, 2023	ld-Ul-Fitr/ParshuramJayanti Sunday
5 th Week 24 April -29 April	Riemann Arrangement Theorem Multiplication of Series, Cauchy Theorem Mertin's Theorem and Examples
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Sequence and series Class- B.A/B.Sc II Semester

May, 2023 1 st Week 1 May -6 May	Infinite Product, Sequence of Partial Sum General Principle of Convergence More Theorems on Infinite Product
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Revision of the syllabus
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

KVA DAV College for Women, Karnal Lesson Plan For The Even Semester (February to May, 2023) Name of the Teacher – MS. SILKY PURI

Class- B.SC.II/B.A.II **Subject- MATHS**

Paper- BM-243(SPECIAL FUNCTIONS AND LAPLACE TRANSFORMS)

February,2023 1st Week 1Feb-4 Feb	Power series:convergence of power series.interval of convergence.operation on power series.shifting of index.analytic functions.existence of power series and their solution.frobenius methods-case 1,case 2,case 3,case 4.Beta and gamma function.Bessel's equation,Bessel's function.
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week 6Feb -11Feb	Recurrence relation, examples of bessel's function.generating function.jacobi's series.orthogonality of bessel's functions.legendre's equation and polynomial.generating function.examples related to legendre polynomial.recurrence relation.orthogonality of legendre polynomial.
12Feb, 2023	Sunday
3 rd Week	Hermite's equation.hermite's polynomial.generating
13Feb -17 Feb	function.rodrigue's formula.recurrence relation of hermite's polynomial.laplace transformation,properties.shifting property of laplace.change of scale property.function of exponent order.
18 Feb, 2023 19 Feb,2023	MahaShivaratri Sunday
4 th Week	Sunday Laplace transformation of derivatives.laplace transformation of
20Feb -25 Feb	integration.sine and cosine series.laplace transformation of important functions.inverse laplace transformation .inverse transformation of laplace.convolution theorem.application of laplace transformation
26 Feb, 2023	Sunday
5 th Week 27 Feb -28 Feb	Examples of laplace application.solution of linear differential equation with constant and variable coefficients.solution of simultaneous linear equation with constant coefficients.solution of ordinary differential equation.

KVA DAV College for Women, Karnal Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – MS. SILKY PURI Class- B.SC.II/B.A.II Subject- MATHS

Paper- BM-243(SPECIAL FUNCTIONS AND LAPLACE TRANSFORMS)

March, 2023 1stWeek 1March -4 March	Fourier transformation and its properties.examples and exercises for fourier transformation.fourier sine and cosine transformation.use of inverse transformation.examples and exercises for inverse sine and cosine transformation.
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Convolution theorem.fourier transform of the derivative.relation between fourier and laplace transforms.parseval's identity.related examples and exercises for parseval's identity.
19 March,2023	Sunday
4 th Week 20March-25 March	Finite sine and cosine transformation.group discussion for above topics. Heat equation.wave equation.related examples and exercises.
23 March, 2023 26 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev Sunday
30 March, 2023 5 th Week 27 March- 31 March	Ram Navmi Continued heat and wave equations. Revision of power series. Revision laplace transformation.

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – MS.SILKY PURI Class- B.SC.II/B.A.II Subject- MATHS

Paper- BM-243(SPECIAL FUNCTIONS AND LAPLACE TRANSFORMS)

April, 2023 1 st Week 1 April, 2023	Revision of laplace transformation continued. Revision of fourier transformation. Revision of bessel's functions. Revision of legendre's function.
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Revision of legendre function continued. Revision of hermite's function .
4 April, 2023 9 April, 2023	MahavirJayanti Sunday
3 rd Week 10April - 15April	Continued revision and tests.
14 April, 2023 16 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday
4 th Week 17 April -21 April	Sessional Exams
22 April, 2023 23 April, 2023	ld-Ul-Fitr/ParshuramJayanti Sunday
5 th Week 24 April -29 April	Continued revision and tests.
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher –MS. SILKY PURI Class- B.SC.II/B.A.II Subject-MATHS Paper- BM-243(SPECIAL FUNCTIONS AND LAPLACE TRANSFORMS)

May, 2023 1 st Week 1 May -6 May	Continued revision and tests.
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Continued revision and tests.
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Shweta Dhawan

Class- B.A/B.Sc (IV Sem)

Subject- Mathematics

Paper- Programming in C and Numerical Methods

February,2023 1st Week 1Feb-4 Feb	Computers: A General Introduction, Programmer's Model of a computer,
	Control unit, memory, types of memory, input and output devices, some
	computer terminologies.
	Algorithm, its definition, characteristics of algorithms, examples based on
	algorithms, Flowcharts, Advantages of flowcharts, conventions of flowcharts,
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week 6Feb -11Feb	limitations of flowcharts, examples based on flowcharts.
	Introduction to C language, its importance, C-character set, trigraph
	characters, C-tokens, keywords, constants, types of constants, escape
	sequence, variables, rules for naming a variable and discussion of examples
	and problems.
	Data-Types, different types of data types, data type for integers, characters,
12Feb, 2023	Sunday
3 rd Week	Data-Types, different types of data types, data type for integers,

13Feb -17 Feb	characters,
	floating point type, double type numbers, void type, qualifiers, variable
	declaration, assignment statement, typedef declaration and enum
	declaration, scanf function, printf function, illustration of concepts with
	programming examples in C.
	Use of comments, new line character, main function, execution of a C program.
18 Feb, 2023 19 Feb,2023	MahaShivaratri Sunday
4 th Week 20Feb -25 Feb	Operators and Expressions, types of operators, special operators, operator
	precedence, cast operators, library functions, illustration of these concepts
	using programs.
	Decision Control Structures: Sequence, Selection, Iteration, if statement
26 Feb, 2023 5 th Week 27 Feb -28 Feb	Sunday if else statement, nested if else statements, illustration of these concepts
	using programs, else-if ladder, switch statement, goto statement, illustration
	of these concepts using programs in C.
	Loops: definition, types, while statement: syntax, flow chart, programming
	examples, do-while statement: syntax, flow chart, programming examples,
	for loop: syntax, flow chart, programming examples, nested control structure

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Dr. Shweta Dhawan Class- B.A/B.Sc (IV Sem) Subject- Mathematics Paper- Programming in C and Numerical Methods

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March, 2023 1stWeek	programming examples.
1March -4 March	
	Break statement: syntax, programming examples, Continue statement: syntax,
	programming examples.
	Functions: introduction, advantages, overview, Function definition,
	return statement: syntax, programming examples.
	Problems
2 nd Week	Holi Break
5 March -12 March, 2023	
3 rd Week 13 March-18 March	Accessing a function, Function Prototyping: syntax, flow chart, programming
	examples, local and global variables, Recursion and programming
	examples based on it, discussion of other C programs.
	The C Preprocessor, file inclusion, macros, macros with arguments, macros
	versus functions, different types of directives, conditional compilation
	directives, nesting of directives, some other directives.
19 March,2023	Sunday

4 th Week 20March-25 March	Arrays: definition, types, examples, declaration of arrays, initialization of
	arrays, programming examples, two dimensional arrays, multi dimensional
	arrays, illustration of these concepts using programs in C, passing arrays to
	functions and discussion of programming examples.
	Solution of Algebraic and Transcendental Equations, continuation and
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week 27 March- 31 March	variation of sign, location of roots, theorems and questions based on it,
	Bisection Method and questions based on it, Regula Falsi Method, its order of
	convergence and questions based on it, Secant Method and questions based
	on it.
	Newton-Raphson Method, its order of convergence and questions based on it.
	Simultaneous Linear Algebraic Equations, Gauss Elimination Method

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – Dr. Shweta Dhawan Class- B.A/B.Sc (IV Sem) Subject- Mathematics Paper- Programming in C and Numerical Methods

April, 2023 1 st Week 1 April, 2023	questions based on Gauss Elimination Method, Gauss Jordan Method and questions based on it,
	Triangularisation Method and questions based on it, Cholesky Decomposition
	Method and questions based on it and discussion of problems.
	Crout's Method and questions based on it, Jacobi's Method and questions
	based on it, Gauss Seidel Method and questions based on it
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Relaxation Method and questions based on it and discussion of problems.
	Puppetting of strings, reading strings, writing strings, concatenation of
	strings, comparision of strings, programming examples based on strings,
	Structures and Unions: definition, declaration, initialization, dot and sizeof
	operator, array of structures, structures and functions, illustration of concept
	of unions using programming examples.

4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3rd Week	Relaxation Method and questions based on it and discussion of
10April -	problems.
15April	
	Puppetting of strings, reading strings, writing strings, concatenation of
	strings, comparision of strings, programming examples based on strings,
	Structures and Unions: definition, declaration, initialization, dot and sizeof
	operator, array of structures, structures and functions, illustration of concept
	of unions using programming examples.
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	Structures and Unions: definition, declaration, initialization, dot and sizeof
24 April -29	SIZEOI
April	
	operator, array of structures, structures and functions, illustration of concept
	of unions using programming examples.
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – Dr. Shweta Dhawan Class- B.A/B.Sc (IV Sem) Subject- Mathematics Paper- Programming in C and Numerical Methods

May, 2023 1 st Week 1 May -6 May	Revision of all Numerical Methods to find real root of algebraic and transcendental Equations namely Bisection Method, Regular Falsi Method, Newton Method, Secant Method
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Revision of Numerical Methods to find approximate solution of simultaneously linear algebraic Equations using Gauss elimination, Guass Seidal, Triangularisation, Jacobi method and many others
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (1February to May, 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- COMPUTER ORIENTED STATISTICAL METHODS

Fohrmany 2022	
February,2023 1 st Week	Statistics Dronauing Engageman Distribution Table
	Statistics: Preparing Frequency Distribution Table
1Feb-4 Feb	Cumulative frequency
	Cumulative frequency
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	
6Feb -11Feb	Measure of Central Tendancy, Types:
	Arithmetic mean, Geometric Mean, Harmonic Mean
	Median, Mode
12Feb, 2023	Sunday
3rd Week	
13Feb -17 Feb	Measure of Dispersion:Range,Quartile Deviation
	Coefficient of mean deviation, Standard deviation
	Mean deviation
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4th Week	
20Feb -25 Feb	Moments:moment about mean, Moments about any point, Moment
	about origin, Moment about mean in terms of moment about anypoint,
	Moment about any point in terms of moment about mean
26 Feb, 2023	Sunday
5 th Week	
27 Feb -28 Feb	Correlation: Introduction, Types, Properties, Methods of correlation
	Karl Pearson's Coefficient of correlation, Rank Correlation and
	Concurrent Deviation method, Probable error.

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- COMPUTER ORIENTED STATISTICAL METHODS

March, 2023 1stWeek 1March -4 March	Regression:Introduction,Aim of Regression Analysis,Types of Regression Analysis,Lines of regression,Properties of Regression Coefficient and Regression Lines,Comparison with Correlation
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Sessionals Curve fitting, Straight Line, Parabolic curve, Geometric curve and exponential curve. Baye's theorem in decision making, Forecasting techniques First & second assignment.
19 March,2023	Sunday
4thWeek 20March-25 March	Types: Binomial, Poisson, Normal Distribution, Mean and variance of Binomial, Poisson and Normal Distribution
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev
26 March, 2023 30 March, 2023	Sunday Ram Navmi
5 th Week 27 March- 31 March	Sample introduction, Sampling Meaning, Methods of sampling. Statistical interferences: Test of hypothesis, Types of hypothesis,
	Procedure of hypothesis Testing, Type I and Type II error, One tailed and two tailed test.

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- COMPUTER ORIENTED STATISTICAL METHODS

April, 20	
23	Types of test of significance :Test of significance for attribute-test of
1 st Week	No. of success and test of proportion of success,
1 April, 2023	Test of significance for large samples- Test of significance for single
	mean and difference of mean
	mean and difference of mean
2 April, 2023	Sunday
2 nd Week	
3 April -8 April	Test of significance for small samples
	(t-test)-test the significance between the mean of a random sample
	between the mean of two independent samples
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	
10April -	Student Problems
15April	Class Task
14 April, 2023	Class Test Vaisakhi/Dr. B.R. AmbedkarJayanti
14 April, 2023 16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	Segurial Lauliu
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	Class test
24 April -29	
April	Student Problems
	REVISION
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – Ms. MEENU KALRA

Subject- MATHEMATICS

Paper- COMPUTER ORIENTED STATISTICAL METHODS

May, 2023 1 st Week	Students problems
1 May -6 May	Class Test
7 May, 2023	Sunday
2 nd Week 8 May -13 May	REVISION
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Real and Complex analysis Class- B.A/B.Sc VI Semester

E 1 2022	T
February,2023	Introduction to Jacobians. Definition of Jacobian.
1st Week	Chain rule for Jacobian and some results based on Jacobians
1Feb-4 Feb	Examples to find jacobian of given functions
	Related Problems
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Functional dependence (or non independance)
6Feb -11Feb	Examples related to functional dependency
	Definition of Beta function and two properties of beta
	function
	Property of Beta function
	Related Problems
12Feb, 2023	Sunday
3 rd Week	Introduction to Gamma function . recuurence formula for gamma function, Relation between Beta and Gamma function
13Feb -17 Feb	Examples to find Gamma function
	Duplication formula
18 Feb, 2023	MahaShiyaratri
19 Feb,2023	Sunday
4th Week	Legendre's formula Related Problems
20Feb -25 Feb	
20100 20100	Introduction of Fourier Series, some important Results on Definite Integral
	Fourier series for even and odd functions
26 Feb, 2023	Sunday
5th Week	Dirichlets conditions, Properties of fourier coefficients and examples of Exercise 4.1
27 Feb -28 Feb	OI EXERCISE 4.1

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Real and Complex analysis Class- B.A/B.Sc VI Semester

March, 2023 1 st Week 1March -4 March	Fourier expansion of functions having points of discontinuity Related Problems Change of Interval, half range series Parseval's identity for Fourier Series, Examples of Exercise4.3 Related Problems
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	introduction to double integral, evaluation of double integrals some examples to evaluate double integral substitution method for double integrals and example based on it
19 March,2023	Sunday
4 th Week 20March-25 March	Explanation to triple integral with the help of some examples substitution method for triple integrals and examples Application of double and triple integrals for finding area and volume of surfaces with examples Dirichlet's integral liouvill's extension of Dirichlet's integral change of order of integration with examples
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	calculus of complex functions introduction
27 March- 31	stereographic projection of complex numbers with examples
March	complex function or functions of a complex variable, limit of a
	complex function continuity of a complex function, uniform continuity examples Differentiability of a complex function, theorem based on it, Rule of Differentiation, Geometric interpretation of the derivative
	Exercise

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Real and Complex analysis

Class- B.A/B.Sc VI Semester

April, 2023 1st Week 1 April, 2023 2 April, 2023 2nd Week	Introduction to analytic function, Cauchy-Riemann equations Sunday some examples and doubt clearing session
3 April -8 April	sufficient condition for f(z) to be analytic, C-R equations in polar form orthogonal system, introduction to Harmonic functions ,harmonic conjugate functions .examples construction of an analytic function- Milne's Thompson's method
4 April, 2023 9 April, 2023	MahavirJayanti Sunday
3 rd Week 10April - 15April	examples based on Milne's Thompson's method Applications of Analytic functions to field and flow problems introduction to Multi- valued function ,Branch, Branch cut, Branch point Elementary functions- Exponential function, properties of exponential functions Trigonometrical functions sinz and cosz properties of trigonometrical (Euler's theorem, De-Morvre's theorem for complex numbers)
14 April, 2023 16 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday
4 th Week 17 April -21 April	Sessional Exams
22 April, 2023 23 April, 2023	ld-Ul-Fitr/ParshuramJayanti Sunday
5thWeek 24 April -29 April	Introduction to Hyperbolic functions, Properties of Hyperbolic functions, the logarithmic function, properties of the logarithmic function, inverse trogonometric and hyperbolic functions Mapping by elementary functions and examples, conformal mappping, linear transformation
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher - Dr. Manju Sharma

Subject- Mathematics

Paper- Real and Complex analysis

Class- B.A/B.Sc VI Semester

May, 2023 1 st Week 1 May -6 May	Mobius transformation or Bilinear transformations, fixed points nature of mobius transformation Critical points, Critical Mappings
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Revision of the syllabus
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Shweta Dhawan

Subject- Mathemaics

Paper- BM-362

Class- B.A/B.Sc VI Semester-

February,2023	Vector Space, , examples, Subspace, Examples based on Subspaces,
1 st Week 1Feb-4 Feb	Linear Sum, Direct Sum and examples based on Direct Sum
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Linear Combination, Linear Dependence and Linear Independence,
6Feb -11Feb	Examples, Linear Span, Basis of a vector Space, Theorems based on
	basis of vector spaces.
12Feb, 2023	Sunday
3rd Week	Theorems based on basis of vector spaces continuedDimension of
13Feb -17 Feb	Vector Space and based Examples, methods to find basis of Vector
	space and its Subspaces if spanning Sets of Subspace is given.
18 Feb, 2023 19 Feb,2023	MahaShivaratri Sunday
4 th Week 20Feb -25 Feb	Theorems based on basis of vector spaces continuedDimension of Vector Space and based Examples, methods to find basis of Vector space and its Subspaces if spanning Sets of Subspace is given.
	Complementary Subspace and example based on itQuotient SpaceDimension of Quotient Space, and based probles
26 Feb, 2023	Sunday
5th Week	
27 Feb -28 Feb	Complementary Subspace and example based on itQuotient SpaceDimension of Quotient Space, and based probles

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Dr. Shweta Dhawan

Subject- Mathemaics

Paper- BM-362

Class- B.A/B.Sc VI Semester

March, 2023 1 st Week 1March -4 March	Linear Transformation and its Properties, example based on Linear Transformation, Types of Linear Transformation, Some important Theorems on Dimension of V.S using notion of Linear Transformation
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Method to find Linear transformation when its image on basis vectors is given, Null Space, Range Space, Rank of a linear Transformation, Nullity of a Linear Transformation, Fundamental Theorem of Vector Space Homomorphism
19 March,2023	Sunday
4 th Week 20March-25 March	Method to find Linear transformation when its image on basis vectors is given, Null Space, Range Space, Rank of a linear Transformation, Nullity of a Linear Transformation, Fundamental Theorem of Vector Space Homomorphism
23 March, 2023 26 March, 2023 30 March, 2023 5 th Week	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev Sunday Ram Navmi Sylvester's Law (Rank- Nullity Theorem), Examples based on this
27 March- 31 March	Theorem and examples based on one-one and onto Linear Transformations

Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher - Dr. Shweta Dhawan

Subject- Mathemaics

Paper- BM-362

Class- B.A/B.Sc VI Semester

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April, 2023 1 st Week 1 April, 2023	Sylvester's Law (Rank-Nullity Theorem), Examples based on this Theorem and examples based on one-one and onto Linear Transformations
2 April, 2023 2nd Week	Sunday Algebra of Linear Transformation, Minimal Polynomial, of a Linear
3 April -8 April	Transformation, Singular and non-singular Linear Transformation, Matrix of Linear Transformatio
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Algebra of Linear Transformation, Minimal Polynomial, of a Linear
10April -	Transformation, Singular and non-singular Linear Transformation,
15April	Matrix of Linear Transformatio
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	
24 April -29	Change of Basis, Eigen Values and Eigen vectors of Linear
April	Transformation, Inner product Spaces, Cauchy-Schwarz inequality,
	orthogonal and orthonormal vectors, orthogonal sets and Basis
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher - Dr. Shweta Dhawan

Subject- Mathemaics

Paper- BM-362

Class- B.A/B.Sc VI Semester

May, 2023 1 st Week 1 May -6 May	Bessel's inequality for finite dimensional vector spaces, Gram- Schmidt Orthogonalization Process, Adjoint of a Linear Transformation and its Properties, Unitary Linear Transformation and related concepts.
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Bessel's inequality for finite dimensional vector spaces, Gram- Schmidt Orthogonalization Process, Adjoint of a Linear Transformation and its Properties, Unitary Linear Transformation and related concepts.
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (1February to May, 2023)

Name of the Teacher - Ms.Meenu Kalra

Subject- Mathematics

Paper-Dynamics

Class- B.Sc.-III(SEM-6)

February, 2023	
1st Week	Basic concepts and definitions-space, matter, particle, rigid body,
1Feb-4 Feb	Displacement of a particle
	Expression for a velocity at a point, relative velocity
	Accleration due to gravity, particle projected vertically downwards
	Components of velocity and acceleration along the coordinate axes
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Motion of a particle along a plane curve with constant angular
6Feb -11Feb	accelerationExamples related to above topics.Radial and transverse
	velocities and acceleration polar Mcoordinates Tangential and normal
	components of velocity of a particle. Tangential and normal
	components of acceleration
	components of acceleration
12Feb, 2023	Sunday
3rd Week	v v
13Feb -17 Feb	Examples related to above topics. Relative motion: relative
	displacement, relative velocity and their examples
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4th Week	Determination of relative velocity, magnitude of relative velocity and
20Feb -25 Feb	its examples.
	Simple harmonic motion(SHM), Velocity of a particle executing SHM
	Nature and amplitude of SHM, periodic motion, SHM is period
	Examples
	Student problems
26 Feb, 2023	Sunday
5 th Week	Elastic string:-Hooke's law, Work done against the tension
27 Feb -28 Feb	Horizontal and vertical elastic string
	Newton's first, second, third laws of motion
	Weight of a body and related examples
	Pressure of a body resting on a horizontal plane moving downwards

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Ms.Meenu Kalra

Subject- Mathematics

Paper-Dynamics

Class- B.Sc.-III(SEM-6)

March, 2023	
1stWeek	Metion of a life and examples Metion of two hadies connected by a
	Motion of a lift and examples. Motion of two bodies connected by a
1March -4 March	string, at wood's machine.
	Work done by a variable force, work done in stretching an elastic
	string.
2 nd Week	Holi Break
5 March -12	
March, 2023	
3 rd Week	Power and its examples.
13 March-18	Principal of work and energy, principle of conservation of energy
March	Impulse of a constant force & variable force
	Motion of a particle on a smooth and rough plane curves.
	Related Examples.
19 March,2023	Sunday
4 th Week	Motion on the outside of a smooth vertical circle and related
20March-25	examples.
March	Motion on the inside of a smooth vertical circle and related examples
	Cycliodal motion: cycloid, result for a cycloid, motion on a cycloid
	Examples
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Projectile:introduction -trajectory,angle of projection.
27 March- 31	Latus rectum, vertex. focus, directrix, axis of the trajectory of a
March	particle.
	Time of flight, Horizontal range
	Greatest height of a projectile and to find the direction of a
	projectile.
	Velocity at any point of the trajectory and examples.
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Lesson Plan For The Even Semester (February to May 2023)

Name of the Teacher – Ms.Meenu Kalra Subject- Mathematics Paper-Dynamics Class- B.Sc.-III(SEM-6)

April, 2023 1 st Week 1 April, 2023	Direction in which a particle be projected to pass through a given point Least velocity for a particle to hit a given point and time of flight. Related examples. Range and time of flight on inclined plane,max range up the plane Central orbits,central force,thm on central orbit,polar form
2 April, 2023	Sunday
2nd Week	
3 April -8 April	Areal velocity and its theorem. Elliptic orbit and theorem based on it. Hyperbolic orbit and its result Parabolic orbit and its theorem Velocity in agiven circle:to determine orbit Apse,apsidal distances and apsidal angle and theorem related examples
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Kepler's laws of planetary motion, Newton's laws of gravitation
10April -	Eqvivalence of kepler's law for planetary motion and newton's
15April	law.Motion under the inverse square law and examples.
	Motion of a particle in 3-D velocity of a particle along a curve. Motion of particle in terms of cylindrical polar coordinates
14 April, 2023	Vaisakhi/Dr. B.R. Ambedkar Jayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	
24 April -29 April	Velocity and acceleration of moving axes. To find acceleration when a point is moving along any curve in 3-D.
_	
30 April, 2023	Sunday

Lesson Plan for the Even Semester (February to May, 2023)

Name of the Teacher – Ms.Meenu Kalra Subject- Mathematics Paper-Dynamics Class- B.Sc.-III(SEM-6)

May, 2023 1 st Week 1 May -6 May	Sessional
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Class Test & Revision
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms. Vandana Sharma Class- M.Sc. (MATHEMATICS) Subject- Advanced Abstract Algebra-II

Paper- MM-407

3 rd Week 13Feb -17 Feb	Commutators and higher commutators. Commutators identities. Commutator subgroups. Derived group.
18 Feb, 2023 19 Feb,2023	MahaShivaratri
4 th Week 20Feb -25 Feb	Sunday Three subgroups Lemma of P.Hall. Central series of a group G. Nilpotent groups. Centre of a nilpotent group. Subgroups and factor subgroups of nilpotent groups.
26 Feb, 2023	Sunday
5 th Week 27 Feb -28 Feb	Finite nilpotent groups. Upper and lower central series of a group G and their properties. Subgroups of finitely generated nilpotent groups. Sylow-subgroups of nilpotent groups.
March, 2023 1 st Week 1March -4 March	Similar linear transformations. Invariant subspaces of vector spaces. Reduction of a linear transformation to triangular form. Nilpotent transformations.
2 nd Week 5 March -12 March, 2023	Holi Break

3 rd Week 13 March-18 March	Nilpotent transformations. Index of nilpotency of a nilpotent transformation. Cyclic subspace with respect to a nilpotent transformation. Uniqueness of the invariants of a nilpotent transformation.
19 March,2023	Sunday
4 th Week 20March-25 March	Primary decomposition theorem. Jordan blocks and Jordan canonical forms. Cyclic module relative to a linear transformation. Companion matrix of a polynomial f(x).
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Rational Canonicals form of a linear transformation and its elementary divisior.
27 March- 31	Uniqueness of the elementary divisior.
March	

April, 2023 1 st Week 1 April, 2023	Modules, submodules and quotient modules. Module generated by a non-empty subset of an R-module. Finitely generated modules and cyclic modules. Idempotents.
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Homomorphism of R-modules. Fundamental theorem of homomorphism of R-modules. Direct sum of modules. Endomorphism rings $\operatorname{End}_{\mathbf{Z}}(M)$ and $\operatorname{End}_{\mathbf{R}}(M)$ of a left R-module M.

4 April, 2023 9 April, 2023 3 rd Week 10April - 15April	MahavirJayanti Sunday Simple modules and completely reducible modules, Finitely generated free modules. Rank of a finitely generated free module. Submodules of free modules of finite rank over a PID.
14 April, 2023 16 April, 2023 4 th Week 17 April -21 April	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday Sessional Exams
22 April, 2023 23 April, 2023 5 th Week 24 April -29 April	Id-Ul-Fitr/ParshuramJayanti Sunday Endomorphism ring of a finite direct sum of modules. Finitely generated modules. Ascending and descending chains of sub modules of an R-module. Ascending and Descending change conditions.
30 April, 2023	Sunday

May, 2023 1 st Week 1 May -6 May	Noetherian modules and Noetherian rings. Finitely co-generated modules. Artinian modules and Artinian rings.
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Nil and nilpotent ideals. Hilbert Basis Theorem. Structure theorem of finite Boolean rings. Wedeerburn-Artin theorem and its consequences.
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms.Rakhi Class- M.Sc(P) Subject- Mathematics Paper-Real Analysis-II (MM-408)

3 rd Week	Lebesgue outer measure
15Feb -17 Feb	Elementary properties of outer measure
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4 th Week	Measurable sets and their properties
20Feb -25 Feb	Lebesgue measure of sets of real numbers, Algebra of measurable sets
	Borel sets and their measurability
	Characterization of measurable sets in terms of open, closed ,F σ and G δ sets
	Existence of a non measurable set
26 Feb, 2023	Sunday
5 th Week	Lebesgue measurable functions and their properties
27 Feb -28 Feb	Characteristic functions
March, 2023	Simple functions, approximation of measurable function by a sequence of
1 st Week	simple functions
1March -4 March	Functions as nearly continuous functions
	Borel measurability of a function
	Section-2 : Almost uniform convergence
	Egoroff's theorem
2 nd Week	Holi Break
5 March -12	
March, 2023	
3 rd Week	Lusin's theorem
13 March-18	Convergence in measure
March	F.Riesz theorem
	Shortcomings of Riemann integral
	Lebesgue integral of a bounded function over a set of finite measure and its
	properties
19 March,2023	Sunday
4 th Week	Lebesgue integral as a generalization of Riemann integral

20March-25	Bounded convergence theorem
March	Lebesgue theorem regarding points of discontinuity of Riemann integrable
	funtions
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Section -3: Integral of a non negative function
27 March- 31	Fatou's lemma
March	Monotone convergene theorem

April, 2023 1 st Week 1 April, 2023 2 April, 2023	Integration of series Sunday
2 nd Week	The general Lebesgue integral
3 April -8 April	Lebesgue convergence theorem
3 April -o April	Differentiation and Integration: Differentiation of monotone functions
	Vitali's covering lemma
	Vitali 5 covering lemma
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	The four Dini derivatives
10April -	Lebesgue differentiation theorem
15April	Functions of bounded variation and their representation as a difference of
	monotone functions
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	Sessional Exams
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	Section-4: Differentiation of integral
24 April -29	Absolutely continues function
April	
30 April, 2023	Sunday

May, 2023	Convex function
1 st Week	Jensen's inequality
1 May -6 May	The Lp spaces
	Minkowski Inequality
	Holder's inequality
7 May, 2023	Sunday
2 nd Week	Completeness of Lp spaces
8 May -13 May	Bounded Linear functional on Lp spaces
	Riesz representation theorem
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher –Ms.Rakhi

Class- M.sc(P)

Subject- Mathematics

Paper- Computer Programming Theory(MM-409)

	ple fortran 90 programs
15Fob 17 Fob	
13Feb -17 Feb inpu	t statements, some FORTRAN 90 Program examples
Num	neric constants and Variables: Constants,Scalar Variables
Decl	aring variable names,Implicit declaration,Named constants
18 Feb, 2023 Mal	haShivaratri
19 Feb,2023 Sun	day
4 th Week Arith	nmetic Operators and Modes of Expressions
20Feb -25 Feb Integ	ger Expressions, Realexpressions, Precedence of operators in expressions
Exan	nples of Arithmetic expressions
Assig	gnment statements,Defining variables
Som	e problems due to rounding of real numbers, Mixed mode expressions
26 Feb, 2023 Sun	day
5 th Week Intri	nsic Functions,Examples of use of functions
27 Feb -28 Feb List of	directed input statements
List	directed output statements
Rela	tional operators
March, 2023 The	Block IF construct,Example program using IF structures
1 st Week The	Block DO loop,count controlled DO loop
1March -4 March Rule	es to be followed in writing DO loops
Logi	ical constants, Variables and Expressions
Pred	cedence rules for Logical Opeartors, Some examples of use of logical
expi	ressions
2 nd Week Hol	li Break
5 March -12	
March, 2023	
3 rd Week	
13 March-18 The	CASE Statement
March Fund	ction subprograms,syntax rules for Function Subprogram

	Generic Functions
	Subroutines
	Subloutilles
19 March,2023	Sunday
19 Wai Cii, 2023	Sunday
4 th Week	Internal Procedures
20March-25	Array variables
March	Use of multiple subscripts
	DO Type notation for input/output statements
	Initializing arrays
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	
27 March- 31	Terminology used for multidimensional arrays
March	Use of arrays in DO loopsWhole array operations
	Format description for numerical data;READstatement,Format description for
	PRINT statement

April , 2023	Multi record formats
1 st Week	
1 April, 2023	
2 April, 2023	Sunday
2 nd Week	Printing Character strings, Reading and writing logical quantities
3 April -8 April	Generalized Input/Output statements,Some comments on formats
	The Character Data Type, Manipulatingstrings, comparing character strings
	Procedures with multidimensional aarays
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Temporary arrays in procedures
10April -	Function as dummy arguments
15April	Defining Derived Types, Using derived types
	Using derived types in procedures, Using derived types in arrays
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday

5 th Week	Creating a Sequential file, searching a sequential file, Updating a sequential
24 April -29	file
April	Direct access files, The INQUIRE Statement
	The Pointer data type, Creating a list data structure, Manipulating a Linearly Linked
	List
30 April, 2023	Sunday

May, 2023	Applications of Binary Trees
	, , ,
1 st Week	Abstract Data Type with Modules
1 May -6 May	Simulation and application of Stack, Abstract Data Type Complex
	Kind Specifications foe Reals, Integers and Characters, Use of complex quantities
7 May, 2023	Sunday
2 nd Week	Array operations with a Mask,Namelist input/output
8 May -13 May	FORALL Statement, PURE Procedures, Elemental Procedures
	Miscellaneous Features, Conclusions
14 May, 2023	Sunday
17 May,2023	University Examinations
Onwards	

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms. Monila Bansal Class- M.sc.(Sem-II) Subject- Mathematics

Paper- Complex Analysis-II(MM-410)

3 rd Week 13 Feb - 17 Feb	Spaces of analytic functions and their completeness Hurwitz's theorem
18 Feb, 2023	Maha Shivaratri
19 Feb, 2023	Sunday
4 th Week	Montel's theorem
20 Feb - 25 Feb	Riemann mapping theorem
26 Feb, 2023	Sunday
5 th Week	infinite products
27 Feb - 28 Feb	
March, 2023	Weierstrass factorization theorem
1 st Week	Gamma function and its properties
1 March - 4 March	
NAME CIL	
2 nd Week	Holi Break
5 March -	
12 March, 2023	
3 rd Week	Functional equation for gamma function
13 March -	Integral version of gamma function
18 March	Reimann-zeta function
19 March, 2023	Sunday
4 th Week	Riemann's functional equation

20 March -	Runge's theorem
25 March	Mittag-Leffler's theorem
23 March, 2023	Shaheedi Diwas/Martyrdom Day of Bhagat
	Singh, Rajguru & Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Analytic continuation
27 March -	uniqueness of direct analytic continuation
31 March	uniqueness of analytic continuation along a curve

April , 2023	Power series method of analytic continuation
1st Week	Examples based on natural boundary condition
1 April, 2023	Schwarz reflection principle
2 4 . 1 2022	
2 April, 2023	Sunday
2 nd Week	Monodromy theorem and its consequences
3 April - 8 April	Harmonic function as a disk
	Poisson's Kernel
	Harnack's inequality
4 April, 2023	Mahavir Jayanti
9 April, 2023	Sunday
3 rd Week	Harnack's theorem
10 April -	Canonical product
15 April	Jensen's formula
	Poisson-Jensen formula
	Hadamard's three circle theorem
	Dirichlet problem for a unitdisk
14 April, 2023	Vaisakhi/Dr. B.R. Ambedkar Jayanti
16 April, 2023	Sunday
4 th Week	Dirichlet problem for a region
17 April -	Green's function
21 April	Order of an entire function
	Borel theorem
	Hadamard'sfactorization theorem
	The range of an analytic function
22 April, 2023	ld-Ul-Fitr/Parshuram Jayanti

23 April, 2023	Sunday
5 th Week	Bloch's theorem
24 April -	Schottky's theorem
29 April	Little-Picard theorem
30 April, 2023	Sunday

May, 2023	Montel-Carathedory theorem
1 st Week	Great Picard theorem
1 May - 6 May	Univalent functions
	Bieberbach's conjecture (Statement only), and 1/4 theorem
7 May, 2023	Sunday
2 nd Week	Sessional
8 May - 13 May	
14 May, 2023	Sunday
17 May, 2023	University Examinations
Onwards	

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms.Rakhi Class- M.Sc(P) Subject- Mathematics

Paper- Differential Equations-II(MM-411)

3 rd Week	Linear second order equations:Preliminaries
15Feb -17 Feb	Self adjoint equation of second order, basic facts
	Superposition principle
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4 th Week	
20Feb -25 Feb	Riccati's equation
	Pruffer transformation
	Zero of a solution, Oscillatory and Non-Oscillatory equations
26 Feb, 2023	Condon
5 th Week	Sunday Abel's formula
27 Feb -28 Feb	Common zeros of solutions and their linear dependence
March, 2023	Sturm theory : Sturm separation theorem
1 st Week 1March -4 March	Sturm fundamental comparision theorem and their corollaries
IMarch -4 March	
2 nd Week	II-R Daniel
	Holi Break
5 March -12	Hon Break
5 March -12 March, 2023	Holl Break
March, 2023	Holl Break
	Elementary linear oscillations
March, 2023	
March, 2023 3 rd Week	Elementary linear oscillations
March, 2023 3 rd Week 13 March-18	Elementary linear oscillations Autonomous systems: the phase plane, paths and critical points, types of

4 th Week	Stability of critical points, Critical points and paths of linear systems : basic
20March-25	theorms and their applications
March	
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
	Singh, Rajguru&Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Critical points and paths of non-linear system : basic theorems and their
27 March- 31	applications
March	Liapunov function
	Liapunov's direct method for stability of critical points of non – linear systems

April 2022	Limit cycles and periodic solutions: Limit cylecs, existence and non-existence of
April, 2023	
1 st Week	limit cycles
1 April, 2023	
2 April, 2023	Sunday
2 nd Week	Benedixson's non-existence theorem
3 April -8 April	Half-path or Semiorbit
	Limit set
	Poincare-Benedixon theorem
	Index of a critical point
	Second order boundary value problems : Linear problems
	Second order boundary value problems . Linear problems
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Periodic boundary conditions
10April -	Regular linear BVP
15April	Singular linear BVP
_	Non-linear BVP
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	Dessional Launs
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday

5 th Week 24 April -29 April	Sturm-Liouville BVP: definitions, eigen values and eigen functions Orthogonality of functions, orthogonality of eigen functions corresponding to distinct eigen values
30 April, 2023	Sunday

May, 2023	Green's function
1 st Week	Applications of boundary value problems
1 May -6 May	Use of implicit function theorem and fixed point theorems for periodic solutions of
	linear and non-linear equations
7 May, 2023	Sunday
2 nd Week	Revision
8 May -13 May	
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms. Vandana sharma Class- M.sc.(Mathematics) Subject- General Measure and Integration theory Paper- MM-507

February,2023 1 st Week 1Feb-4 Feb	Measures, some properties of measures.
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week 6Feb -11Feb	Outer measures, extension of measures.
12Feb, 2023	Sunday
3 rd Week	Uniqueness of extension, completion of a measure.
13Feb -17 Feb	
18 Feb, 2023	MahaShivaratri
19 Feb,2023	Sunday
4 th Week 20Feb -25 Feb	The LUB of an increasingly directed family of measures.
26 Feb, 2023	Sunday
5 th Week 27 Feb -28 Feb	Measurable functions, combinations of measurable functions,
March, 2023 1 st Week	Limits of measurable functions, localization of measurability, simple functions.

1March -4 March	
2 nd Week	Holi Break
5 March -12 March, 2023	
3 rd Week	Measure spaces, almost everywhere convergence, fundamental almost
13 March-18 March	everywhere. convergence in measure
19 March,2023	Sunday
4 th Week	Fundamental in measure, almost uniform convergence, Egoroff's theorem
20March-25	Riesz-Weyl theorem.
March	
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
26 Manuali 2022	Singh, Rajguru&Sukhdev
26 March, 2023 30 March, 2023	Sunday Ram Navmi
5 th Week	Integration with respect to a measure: Integrable simple functions, non-
27 March- 31	negative integrable functions.
March	

April, 2023 1 st Week 1 April, 2023	Integrable functions, indefinite integrals, the monotone convergence theorem, mean convergence.
2 April, 2023	Sunday
2 nd Week 3 April -8 April	Product Measures: Rectangles, Cartesian product of two measurable spaces, measurable rectangle, sections, the product of two finite measure spaces, the product of any two measure spaces.

4 April, 2023 9 April, 2023	MahavirJayanti Sunday
3 rd Week 10April - 15April	Product of two σ - finite measure spaces; iterated integrals, Fubini's theorem. a partial converse to the Fubini's theorem
14 April, 2023 16 April, 2023 4 th Week 17 April -21 April	Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday Sessional Exams
22 April, 2023 23 April, 2023 5 th Week 24 April -29 April	Id-Ul-Fitr/ParshuramJayanti Sunday Signed Measures: Absolute continuity, finite singed measure, contractions of a finite signed measure, purely positive and purely negative sets, comparison of finite measures. Lebesgue decomposition theorem, a preliminary Radon-Nikodym theorem,
30 April, 2023	Sunday

May, 2023 1 st Week 1 May -6 May	Hahn decomposition, Jordan decomposition, upper variation, lower variation, total variation, domination of finite signed measures, the Radyon-Nikodym theorem for a finite measure space, the Radon-Nikodym theorem for a σ - finite measure space
7 May, 2023	Sunday
2 nd Week 8 May -13 May	Integration over locally compact spaces: continuous functions with compact support, G_δ 's and F_σ 's, Baire sets, Baire function, Baire-sandwich theorem, Baire measure, Borel sets, Regularity of Baire measures, Regular Borel measures, Integration of continuous functions with compact support, Riesz-Markoff's theorem.
14 May, 2023	Sunday
17 May,2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Ms. Monila Bansal

Class- M.Sc. (Sem-IV) Subject- Mathematics

Paper- Partial Differential Equation(MM-508)

February, 2023 1 st Week 1 Feb - 4 Feb	PDE of kth order: Definition, examples and classifications. Initial value problems of Transport equations Homogeneous and non-homogeneous Transport equation
5 Feb, 2023	Guru Ravidas Jayanti , Sunday
2 nd Week 6 Feb - 11 Feb	Harmonic functions and their properties Fundamental solutions of Laplace's Equation Poisson's equation and its solution
12 Feb, 2023	Sunday
3 rd Week 13 Feb - 17 Feb	Mean value formula of Laplace's Equation Strong maximum principle Uniqueness theorem Local estimates for harmonic function
18 Feb, 2023 19 Feb, 2023	Maha Shivaratri Sunday
4 th Week 20 Feb - 25 Feb	Liouville's theorem Harnack's inequality Green's function and its derivation
26 Feb, 2023	Sunday
5 th Week 27 Feb - 28 Feb	Representation formula using Green's function

March, 2023	Symmetry of Green's function
1 st Week	Green's function for a half space
1 March - 4	Green's function for a hall
March	dieen 3 fanction for a ban
2 nd Week	Holi Break
5 March -	
12 March, 2023	
12 March, 2023	
3 rd Week	Energy methods
13 March -	uniqueness theorem
18 March	Dirichlet's principle
	Heat Equation and its physical interpretation
	Fundamental solution of heat equation
19 March, 2023	Sunday
4 th Week	Integral solution of heat equation
20 March -	Solution of initial value problem
25 March	Duhamel's principle, non-homogeneousof heat equation
	Mean value formula for heat equation
	Strong maximum principle and uniqueness.
23 March, 2023	Shaheedi Diwas/Martyrdom Day of Bhagat
	Singh, Rajguru & Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Energy methods
27 March -	Wave equation- Physical interpretation.
31 March	Solution for one dimentional wave equation.
	D'Alemberts formula and its applications
	reflection method
51 March	·

April, 2023	Kirchhoff's formulas
1 st Week	Poisson's formulas
1 April, 2023	
2 April, 2023	Sunday

2 nd Week	Solution of non–homogeneous wave equation for n=1,3
	Energy method. Uniqueness of solution, finite
3 April - 8 April	propagation speed of wave equation.
	Non-linear first order PDE- complete integrals, envelopes
	· · · · · · · · · · · · · · · · · · ·
	Characteristics of (i) linear, (ii) quasilinera, (iii) fully non-linear first order partial
	differential equations
4 April, 2023	Mahavir Jayanti
9 April, 2023	Sunday
3 rd Week	Hamilton Jacobi equations (calculus of variations Hamilton's ODE)
10 April -	Representation of Solutions- Separation of variables
15 April	Similarity solutions (Plane and traveling waves, solitons, similarity under Scaling)
	Fourier Transform
14 April, 2023	Vaisakhi/Dr. B.R. Ambedkar Jayanti
16 April, 2023	Sunday
4 th Week	Laplace Transform
17 April -	
21 April	Converting non linear into linear PDE
_	Cole-Hop Transform, Potential functions, Hodograph and Legendre
22 April, 2023	ld-Ul-Fitr/Parshuram Jayanti
23 April, 2023	Sunday
5 th Week	Sessional
24 April -	
29 April	
30 April, 2023	Sunday
May, 2023	Sessional
1 st Week	Sessional
1 May - 6 May	
7 May, 2023	Sunday
2 nd Week	Revision of the syllabus
8 May - 13 May	
14 May, 2023	Sunday
17 May, 2023	University Examinations
Onwards	

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher - Ms. Vandana sharma

Class- M.sc.(Mathematics) Subject- Mechanics of Solid Paper- MM-509(OPT.I)

February,2023	Two dimensional problems : Plane stress. Generalized plane stress. Airy stress
1 st Week	function. General solution of biharmonic equation.
1Feb-4 Feb	
5Feb, 2023	Guru RavidasJayanti, Sunday
2 nd Week	Stresses and displacements in terms of complex potentials. The structure of
6Feb -11Feb	functions of $\varphi(z)$ and $\psi(z)$. First and second boundary-value problems in plane elasticity.
12Feb, 2023	Sunday
3 rd Week	Existence and uniqueness of the solutions. Waves: Propagation of waves in an
13Feb -17 Feb	isotropic elastic solid medium.
10 Eab. 2022	Maha Shiya ya tui
18 Feb, 2023	MahaShivaratri
19 Feb,2023 4 th Week	Sunday Notes of diletation and distantian Plane was a Florida sunface was a Paulaink
	Waves of dilatation and distortion. Plane waves. Elastic surface waves: Rayleigh waves and Love waves.
20Feb -25 Feb	waves and Love waves.
26 Feb, 2023	Sunday

5 th Week 27 Feb -28 Feb	Extension: Extension of beams, bending of beams by own weight and terminal couples.
March, 2023 1 st Week 1March -4 March	bending of rectangular beams. Torsion : Torsion of cylindrical bars; Torsional rigidity.
2 nd Week 5 March -12 March, 2023	Holi Break
3 rd Week 13 March-18 March	Torsion and stress functions. Lines of shearing stress. Torsion of anisotropic beams.
19 March,2023	Sunday
4 th Week 20March-25 March	Simple problems related to circle and questions.
23 March, 2023	ShaheediDiwas/Martyrdom Day of Bhagat
26 March, 2023	Singh, Rajguru&Sukhdev Sunday
30 March, 2023	Ram Navmi
5 th Week 27 March- 31 March	ellipse and equilateral triangle and related questions.

Variational methods: Theorems of minimum potential energy. Theorems of
minimum complementary energy

2 April, 2023	Sunday
2 nd Week	Problems discussion week.
3 April -8 April	
4 April, 2023	MahavirJayanti
9 April, 2023	Sunday
3 rd Week	Test of section 1 and section 2,3
10April -	
15April	
14 April, 2023	Vaisakhi/Dr. B.R. AmbedkarJayanti
16 April, 2023	Sunday
4 th Week	Sessional Exams
17 April -21	Sessional Exams
April	
22 April, 2023	ld-Ul-Fitr/ParshuramJayanti
23 April, 2023	Sunday
5 th Week	Reciprocal theorem of Betti and Rayleigh. Deflection of elastic string
24 April -29	
April	
30 April, 2023	Sunday
May, 2023	Deflection of a beam and elastic membrane. Solution of Euler's equation by Ritz.
1 st Week	
1 May -6 May	
7 May, 2023	Sunday
2 nd Week	Galerkin and Kantorovich methods and related questions.
8 May -13 May	
14 May, 2023	Sunday
17 May,2023	University Examinations
Onwards	V 11 111 1 11

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms.Monila Bansal Class- M.sc. (Sem-IV) Subject-Mathematics Paper- Fluid Mechanics-II

February, 2023	Equations of continuity in cylindrical and spherical coordinates
1 st Week	Equation of motion in cylindrical and spherical coordinates
1 Feb - 4 Feb	
5 Feb, 2023	Guru Ravidas Jayanti , Sunday
2 nd Week	Two-dimentional inviscid incompressible flows, Stream function
6 Feb - 11 Feb	Irrotatonal motion in two dimensions
	Complex velocity potential
	Sources and sinks in two dimension
	Doublets and their images
12 Feb, 2023	Sunday
3 rd Week	Milne-Thomson circle theorem
13 Feb - 17 Feb	Applications of circle theorem
	Two- dimensional irrotational motion produced by motion of circular
	cylinder
	- Cymraer
18 Feb, 2023	Maha Shivaratri
19 Feb, 2023	Sunday
4 th Week	Two dimensional motion: Motion due to elliptic cylinder in an infinite
20 Feb - 25 Feb	mass of liquid
	Continued
	Kinetic energy of liquid contained in rotating elliptic cylinder
	circulation about elliptic cylinder
	Theorem of Blasius
	Theorem of Kutta and Joukowski
	THEOLETH OF KULLA AND JOUKOWSKI

26 Feb, 2023	Sunday
5 th Week	Stoke's stream function
27 Feb - 28 Feb	
NA 1 2022	
March, 2023 1 st Week	Stoke's stream functions of some basic flows
1 March - 4 March	Stoke's stream functions of some basic nows
2 nd Week	Holi Break
5 March -	AAVIA AA VAIT
12 March, 2023	
12 March, 2023	
3 rd Week	Three –dimensional motion : Motion of a sphere through a liquid at rest
13 March -	at infinity
18 March	Liquid streaming past a fixed sphere
	Equation of motion a sphere
	Continued
	Alembert's paradox
	impulsive motion
19 March, 2023	Sunday
	·
4 th Week	initial motion of liquid contained in the intervening space between two
20 March -	concentric spheres
25 March	Vortex motion and its elementary properties
23 March, 2023	Shaheedi Diwas/Martyrdom Day of Bhagat
	Singh, Rajguru & Sukhdev
26 March, 2023	Sunday
30 March, 2023	Ram Navmi
5 th Week	Kelvin's proof ofpermanence
27 March -	Motions due to circular and rectilinear vortices
31 March	Infinite rows of line vortices

April, 2023 1 st Week 1 April, 2023	Dynamical similarity Buckingham pi- theorem
2 April, 2023	Sunday

Prandtl's boundary layer Reynolds number
reynolus number
Mahavir Jayanti
Sunday
ooundary layer equations in two dimensions
Blasius solution
Boundary layer thickness. Displacement thickness
, ,
Vaisakhi/Dr. B.R. Ambedkar Jayanti
Sunday
Karman integral conditions
Separation of boundary layer
beparation of boundary layer
d-Ul-Fitr/Parshuram Jayanti
Sunday
Sessional
Sunday
N

May, 2023 1 st Week	Sessional
1 May - 6 May	
7 May, 2023	Sunday
2 nd Week 8 May - 13 May	Revision Of the Syllabus
14 May, 2023	Sunday
17 May, 2023 Onwards	University Examinations

Lesson Plan For The Even Semester (February to May, 2023)

Name of the Teacher – Ms.Monila Bansal Class- M.Sc.(Sem-IV)

Subject- Mathematics

Paper- Mathematical Aspects of Seismology

February, 2023	Introduction of seismology
1 st Week	General form of progressive waves
1 Feb - 4 Feb	
5 F. L. 2022	
5 Feb, 2023	Guru Ravidas Jayanti , Sunday
2 nd Week	Harmonic waves, Plane waves
6 Feb - 11 Feb	The wave equation
	Principle of superposition
	Special types of solutions: Progressive and Stationary type
	solutions of wave equation
12 Feb, 2023	Sunday
3 rd Week	Equation of telegraphy
13 Feb - 17 Feb	Exponential form of harmonic waves
	D' Alembert's formula
18 Feb, 2023	Maha Shivaratri
19 Feb, 2023	Sunday
4 th Week	Inhomogeneous wave equation
20 Feb - 25 Feb	Dispersion: Group velocity, relation between phase velocity and group
	velocity
	Reduction of equation of motion to wave equations
	P and S waves and their characteristics
	Polarisation of plane P and S waves
	Snell's law of reflection and Refraction
26 Feb, 2023	Sunday
5 th Week	Reflection of plane P and SV waves at a free surface

27 Feb - 28 Feb March, 2023 1st Week 1 March - 4 March 2nd Week 5 March - 12 March, 2023 3rd Week 13 March - 14 March 15 March 16 March 17 March 18 March 19 March, 2023 4th Week 20 March - 25 March 25 March 26 March 27 March 28 March 29 March 20 Marc
1st Week 1 March - 4 March 2nd Week 5 March - 12 March, 2023 Reflection at critical angles Holi Break Reflection and reflection of plane P,SV and SH waves at an interface Liquid-Liquid interface Sunday Liquid-Solid interface Solid-Solid interface Rayleigh Waves Love waves Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
1 March - 4 March 2nd Week 5 March - 12 March, 2023 Reflection and reflection of plane P,SV and SH waves at an interface 13 March - 18 March 19 March, 2023 Sunday 4th Week 20 March - 25 March Reflection and reflection of plane P,SV and SH waves at an interface Liquid-Liquid interface Solid-Solid interface Solid-Solid interface Rayleigh Waves Love waves Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
3rd Week 13 March - 12 March, 2023 Reflection and reflection of plane P,SV and SH waves at an interface Liquid-Liquid interface 18 March 19 March, 2023 Sunday 4th Week 20 March - 25 March Rayleigh Waves Love waves Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
3rd Week 13 March - 18 March 19 March, 2023 4th Week 20 March - 25 March 23 March 24 March 25 March 25 March 26 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
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13 March - 18 March 19 March, 2023 Sunday 4th Week 20 March - 25 March Rayleigh Waves Love waves 23 March, 2023 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
18 March, 2023 Sunday 4th Week 20 March - Solid-Solid interface 25 March Rayleigh Waves Love waves 23 March, 2023 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
19 March, 2023 Sunday 4 th Week 20 March - Solid-Solid interface 25 March Rayleigh Waves Love waves 23 March, 2023 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
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20 March - 25 March Rayleigh Waves Love waves Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
25 March Rayleigh Waves Love waves 23 March, 2023 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
Love waves 23 March, 2023 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
23 March, 2023 Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev
Singh, Rajguru & Sukhdev
Singh, Rajguru & Sukhdev
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26 March, 2023 Sunday
30 March, 2023 Ram Navmi
5 th Week Stoneley waves
27 March - Two dimensional Lamb's problems in an isotropic elastic solid: Area
31 March sources and Line sources in an unlimited elastic solid
A normal force acts on the surface of a semi-infinite elastic solid

April, 2023 1 st Week 1 April, 2023 2 April, 2023	Tangential forces acting on the surface of a semi-infinite elastic solid Sunday
2 nd Week	Three dimensional Lamb's problems in an isotropic elastic solid: Area
3 April - 8 April	sources and Point sources in an unlimited elastic solid
	Area source and Point source on the surface of semiinfinite elastic solid
4 April, 2023	Mahavir Jayanti
9 April, 2023	Sunday
3 rd Week	Haskell matrix method for Love waves in multilayered medium
10 April -	Spherical waves: Expansion of a spherical wave into plane waves:
15 April	Sommerfield's Integral
	Kirchoff's solution of the wave equation

	Poissons's formula
	Helmholtz's formula
14 April, 2023	Vaisakhi/Dr. B.R. Ambedkar Jayanti
16 April, 2023	Sunday
4 th Week	Introduction to Seismology: Location of earthquakes
17 April - 21 April	Aftershocks and Foreshocks, Earthquake magnitude
22 April, 2023	ld-Ul-Fitr/Parshuram Jayanti
23 April, 2023	Sunday
5 th Week	Sessional
24 April -	
29 April	
30 April, 2023	Sunday

May, 2023 1 st Week	Sessional
1 May - 6 May	
7 May, 2023	Sunday
2 nd Week	Revision Of the syllabus
8 May - 13 May	
14 May, 2023	Sunday
17 May, 2023 Onwards	University Examinations