Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Mrs. Manju Sharma / Mrs. Anita Class- B.Sc. 1st year Subject- Calculus Paper- B23- MAT -101

August, 2023	ϵ - δ definition of limit and continuity of a real valued function, Basic
1 st Week	properties of limits.
1 Aug - 5 Aug	
6 Aug, 2023	Sunday
2 nd Week	Types of discontinuities, Differentiability of functions, Application of L'
7 Aug - 12 Aug	Hospital rule to indeterminate forms.
13 Aug, 2023	Sunday
3 rd Week	Successive differentiation.
14 Aug-19 Aug	
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Leibntiz theorem, Taylor's and Maclaurin's series expansion with
21 Aug - 26 Aug	different forms of remainder.
27 Aug, 2023	Sunday
5 th Week	Asymptotes: Horizontal, vertical and oblique asymptotes for algebraic
28 Aug - 31Aug	curves, Asymptotes for polar curves.
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma / Mrs. Anita Class- B.Sc. 1st year Subject- Calculus Paper- B23- MAT -101

September, 2023 1 st Week 1 Sept - 2 Sept	Intersection of a curve and its asymptotes, Curvature.
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	Curvature and radius of curvature of curves (cartesian, parametric, polar and intrinsic forms).
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Newton's method, Centre of curvature, Circle of curvature.
11 Sept-16 Sept	
17 Sept, 2023	Sunday
4 th Week 18 Sept - 22 Sept	Multiple points, Node, Cusp.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	Conjugate point, Tests for concavity, Tests for convexity.

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma / Mrs. Anita Class- B.Sc. 1st year Subject- Calculus Paper- B23- MAT -101

October, 2023 1 Oct , 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1 st Week 3 Oct – 7 Oct	Points of inflexion, Tracing of curves.
8 Oct, 2023	Sunday
2 nd Week 9 Oct - 14 Oct	Reduction formulae.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week 16 Oct - 21 Oct	Rectification with examples.
22 Oct, 2023	Sunday
4 th Week 23 Oct – 27 Oct	Intrinsic equation of a curve, Quadrature with examples.
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week 30 Oct – 31 Oct	Area bounded by closed curves with examples.
25 Oct – 4 Nov, 2023	Sessional Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma / Mrs. Anita Class- B.Sc. 1st year Subject- Calculus Paper- B23- MAT -101

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 2 nd Week	Haryana Day Sunday
6 Nov – 9 Nov	Volumes and surfaces of solids of revolution with examples.
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week 17 Nov - 18 Nov	Revision of syllabus.
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	Revision of syllabus.
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Silky puri Class- MDC -I Subject- Mathematics Paper-Introductory Mathematics

August, 2023 1 st Week	Sets :representation of sets.
1 Aug - 5 Aug	Empty set, finite and infinite sets.
	Subsets, Equal sets.
	Power sets,Universal set.
	Union and intersection of sets.
6 Aug, 2023	Sunday
2 nd Week	Difference of two sets.
7 Aug - 12 Aug	Complement of a set.
	Venn diagram, de- morgan's laws and their applications.
13 Aug, 2023	Sunday
3 rd Week	An introduction to matrices and their types.
14 Aug-19 Aug	Operation on matrices.
	Symmetric and skew –symmetric matrices.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Minors, cofactors of a matrix.
21 Aug - 26 Aug	Determinant of a square matrix.
	Adjoint of a square matrix.
27 Aug, 2023	Sunday
5 th Week	Inverse of a square matrix.
28 Aug - 31Aug	Solutions of a system of linear equations up to order 3.
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Silky puri Class- MDC -I Subject- Mathematics Paper-Introductory mathematics

Complex numbers:operations on complex numbers.
Modulus and argument of a complex number.
Linear inequalities: algebraic solutions of linear inequalities in two
variables.
Sunday
Graphical representation.
Quadratic equations.
Solution of quadratic equations.
Solution of quantume equations.
Talent Show
Janmastami
Sunday
Arithmetic progression.
Coorrectuie nue mossion
Geometric progression.
Sunday
Harmonic progression.
Relation between A.M.,G.M. AND H.M.
Shaeedi Divas/Haryana War Heroes' Martyrdom Day
Sunday
Annual Prize Distribution Function
Straight lines:slope of a line .
Angle between two lines.
Different forms of equation of a line:parallel to coordinate axes.

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher - Ms. Silky puri Class- MDC -I Subject- Mathematics Paper-Introductory mathematics

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Slope-intercept form.
3 Oct – 7 Oct	Two- point form.
	Questions.
8 Oct, 2023	Sunday
2 nd Week	General form.
9 Oct - 14 Oct	Distance of a point from a straight line.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Standard form of a circle.
16 Oct - 21 Oct	Questions.
22 Oct, 2023	Sunday
4 th Week	Properties of a circle.
23 Oct – 27 Oct	
	Questions.
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	To find centre and radius of a circle.
30 Oct – 31 Oct	Questions.
25 Oct – 4 Nov,	Sessional Exams
2023	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher- Ms. Silky puri Class- MDC -I Subject- Mathematics Paper-Introductory mathematics

November, 2023	
1 st Week	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday
2 nd Week	Revision and tests.
6 Nov – 9 Nov	
10 Nov - 16 Nov	Diwali Break
, 2023	Diwali Di cak
3 rd Week	Revision and tests.
17 Nov - 18 Nov	
19 Nov, 2023	Sunday
4 th Week	Revision and tests.
20 Nov - 24 Nov	
5 th Week	
25 Nov, 2023	University Examination
Onwards	~

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms. MEENU KALRA Class-B.Com.-I Subject- MATHEMATICS Paper-ELEMENTS OF BUSINESS MATHEMATICS

August, 2023	SET THEORY:
1 st Week	Representation of sets:Tabular or roster form,Set builder form,
1 Aug - 5 Aug	finite and infinite sets.Examples
6 Aug, 2023	Sunday
2 nd Week	Venn Diagrams;Union and intersection of sets,Difference and
7 Aug - 12 Aug	symmetric difference of sets.Demorgan's laws,Examples
13 Aug, 2023	Sunday
3 rd Week	Practical Application of sets,Examples
14 Aug-19 Aug	Student problems
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week 21 Aug - 26 Aug 27 Aug, 2023	Class test & Revision
5 th Week 28 Aug - 31Aug	Sunday Logical Statements and Truth Tables: Truth Table,Simple and compound statements Logical Connectives: Conjunction &Disjunction,Negation Examples
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms. MEENU KALRA Class- B.Com.-I Subject- MATHEMATICS Paper- ELEMENTS OF BUSINESS MATHEMATICS

September, 2023 1 st Week 1 Sept - 2 Sept	Student Problems Tautologies,Contradiction,Logical Equivalence Examples
3 Sept, 2023	Sunday
2 nd Week	Logarithms:Product formula,Quotient formula,Power
4 Sept - 9 Sept	formula,Examples
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023 3 rd Week	Sunday
11 Sept-16 Sept	Rules to find characteristics and mantissa,Logarithms& Anti- logarithms,Examples
17 Sept, 2023	Sunday
4 th Week	Arithmetic and geometric progression:
18 Sept - 22 Sept	Sequences,General term,Arithmetic Progression(A.P.) Examples
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Geometric progression, Its general term
26 Sept - 30 Sept	Examples

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. MEENU KALRA Class- B.Com.-I Subject- MATHEMATICS Paper- ELEMENTS OF BUSINESS MATHEMATICS

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Sum of first n terms of G.P.
$3 \operatorname{Oct} - 7 \operatorname{Oct}$	Examples
5 Oct - 7 Oct	Sum of a G.P. upto infinity
	Examples
	Examples
8 Oct, 2023	Sunday
2 nd Week	Application of A.P. and G.P. To Business Problems
9 Oct - 14 Oct	
	Examples
15 0 -4 2022	
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Algebra of matrices:
16 Oct - 21 Oct	
	Matrices & their types, Related examples
	Basic Operation on matrices.(Addition,Subtraction,Scalar
	multiplication, Negative of matrices)
	multiplication, wegative of matrices)
22 Oct, 2023	Sunday
4 th Week	Examples
23 Oct – 27 Oct	Examples
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Multiplication of matrices, Examples
30 Oct – 31 Oct	Symmetric and Skew Symmetric matrices;
	Related Examples
25 Oct – 4 Nov,	Sessional Exams
2023	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms. MEENU KALRA Class- B.Com.-I Subject-MATHEMATICS Paper-ELEMENTS OF BUSINESS MATHEMATICS

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 2 nd Week 6 Nov – 9 Nov	Haryana Day SundayDeterminants:Minor &CofactorsSingular and Non-Singular matrices;Properties of Determinants,Its application in finding the area of a triangleAdjoint & Inverse of a matrixSolution of system of linear equations using determinants,Solution of system of linear equations using matrices.Examples.
10 Nov - 16 Nov , 2023 3 rd Week 17 Nov - 18 Nov	Diwali Break Compound Interest,Examples Continuous compounding of interest,Examples Student Problems
19 Nov, 2023 4 th Week 20 Nov - 24 Nov	Class test & Revision Sunday Annuities: Annuity Immediate & Annuity due;Examples Present value of an annuity.Examples Practical application of annuity. REVISION
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. MEENU KALRA Class- B.B.A.-I Subject- MATHEMATICS Paper- ELEMENTS OF BUSINESS MATHEMATICS

August, 2023 1 st Week 1 Aug - 5 Aug	Sets,Notation \$ their representation,Definitions Examples
6 Aug, 2023	Sunday
2 nd Week	Venn Diagrams, Union & Intersection of sets, Difference of sets
7 Aug - 12 Aug	Questions related to sets
13 Aug, 2023	Sunday
3 rd Week	Symmetric difference of sets, Demorgan's laws
14 Aug-19 Aug	Examples
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4 th Week	Practical Applications of set operations
21 Aug - 26 Aug	Examples
27 Aug, 2023	Sunday
5 th Week	Quadratic Equations, Roots of an equation, Solution of complete
28 Aug - 31Aug	quadratic equation.Examples
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. MEENU KALRA Class- B.B.A.-I Subject- MATHEMATICS Paper- ELEMENTS OF BUSINESS MATHEMATICS

September, 2023 1 st Week 1 Sept - 2 Sept	Solving a quadratic equation by completing the square method. Examples
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	Solution of a quadratic equation by using quadratic formula Examples Student's problems & their solutions.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week 11 Sept-16 Sept	Equations Reducible To Quadratics Examples Nature of roots of a quadratic equation
	Examples
17 Sept, 2023	Sunday
4 th Week 18 Sept - 22 Sept	Relation between roots and coefficient of the quadratic equation Examples
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	Formulation and solution of word problems involving quadratic equations Examples

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. MEENU KALRA Class-B.B.A.-I Subject-MATHEMATICS Paper-ELEMENTS OF BUSINESS MATHEMATICS

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Binomial theorem for any positive integral index
3 Oct – 7 Oct	Examples
8 Oct, 2023	Sunday
2 nd Week	General term in a binomial expansion, Middle term in a binomial
9 Oct - 14 Oct	expansion.Examples
	Function &Limits.
	Examples
	Exponential and logarithmic limits, Finite & Infinite limits
	Examples
15 Oct, 2023	Mahanaia Aguagan Jawanti Cunday
-	Maharaja Agrasen Jayanti, Sunday
3 rd Week 16 Oct - 21 Oct	Left and right hand limits
10 001 - 21 001	Continuity of function
	Examples
22 Oct, 2023	Sunday
4 th Week	Matrix: Its definitions and examples. Basic operations on
23 Oct – 27 Oct	matrices,Addition,Subtraction of matrices
	Multiplication of matrices
	Examples
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Transpose of matrix, Symmetric and Skew-symmetric matrices
30 Oct – 31 Oct	Examples
	Determinant of a square matrix of order two
	Adjoint of a matrix, Inverse of a square matrix
	Examples
25 Oct – 4 Nov,	Sessional Exams
2023	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Mrs. MEENU KALRA Class- B.B.A.-I Subject- MATHEMATICS Paper-ELEMENTS OF BUSINESS MATHEMATICS

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2 nd Week 6 Nov – 9 Nov	Solution of system of linear equations using Cramer's rule & using matrices Examples
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week 17 Nov - 18 Nov	Student's problems Class test &Revision
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	REVISION
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Meenu Kalra Class- B.C.A.-I(Sem –I) Subject- Mathematics Paper- Mathematical Foundations for Computer Science

August, 2023 1 st Week 1 Aug - 5 Aug	Sets and their representation,Empty Set,Finite Sets and infinite sets Examples Subsets,Equal Sets,Power Set,Universal Sets Examples
6 Aug, 2023	Sunday
2 nd Week	Union and Intersection of sets, Difference of two sets, complement of a
7 Aug - 12 Aug	set
	Venn diagram, Demorgan's Law& their application
	Questions
13 Aug, 2023	Sunday
3 rd Week	Introduction to matrices and their types, Operation on matrices
14 Aug-19 Aug	,Symmetric & Skew-Symmetric matrices
	Examples
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	
21 Aug - 26 Aug	Minor,Cofactors.Determinant of a square matrix,
	Examples
	Adjoint and inverse of a square matrix. Examples
	Елапрісь
27 Aug, 2023	Sunday
5 th Week	
28 Aug - 31Aug	Solutions of a system of linear equations upto order 3 using cramer's
	rule
	QUESTIONS
30 Aug, 2023	Raksha Bandhan
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Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Meenu Kalra Class- B.C.A.-I(Sem-I) Subject-Mathematics Paper- Mathematical Foundations for Computer Science

September, 2023 1 st Week 1 Sept - 2 Sept	Solution of system of linear equations using matrices QUESTIONS
3 Sept, 2023 2 nd Week	Sunday Examples related to matrices
4 Sept - 9 Sept	Examples related to matrices
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023 3 rd Week	Sunday Revision & Test
11 Sept-16 Sept	
17 Sept, 2023	Sunday
4 th Week	Problems related to matrices
18 Sept - 22 Sept	
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Quardtic Equations, Solution of quardtic equation using elimination
26 Sept - 30 Sept	\$ Subsitution method.
	Examples

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms. Meenu Kalra Class-B.C.A.-I(SEM-I) Subject- Mathematics Paper- Mathematical Foundations for computer science

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Solution of Quardtic equation by completing the square method.
3 Oct – 7 Oct	Examples
9.0.4 2022	
8 Oct, 2023 2 nd Week	Sunday
9 Oct - 14 Oct	Solution of Quardtic equation by using quadratic
9 0 1 - 14 0 1	formula(DISCRIMINANT METHOD)
	Examples
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Equation related to Quadratics
16 Oct - 21 Oct	
	Examples
	Problems related to quadratic equations.
22 Oct, 2023	Sunday
4 th Week	Formulation and Solution of word problems related to quadratic
23 Oct – 27 Oct	equations.
	Examples
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	
30 Oct – 31 Oct	Introdution to Sequence and series,
	Arithmetic progession
	Problems related to A.P.Geometrical Progression
	Examples
25 Oct – 4 Nov, 2023	Sessional Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms. Meenu Kalra Class-B.C.A.-I(SEM-I) Subject- MATHEMATICS Paper- Mathematical Foundations for Computer Science

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 2 nd Week 6 Nov – 9 Nov	Haryana Day Sunday Differentiation , Differentiation of product of two functions Differentiation of quotient of two functions Chain rule Questions
10 Nov - 16 Nov , 2023 3 rd Week 17 Nov - 18 Nov	Diwali Break Differentiation of trignometrical functions Questions Differentiation of Logarithmic and exponential functions Questions
19 Nov, 2023 4 th Week 20 Nov - 24 Nov	Sunday Differentiation of Implict & Parametric functions Questions REVISION
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

August, 2023 1 st Week 1 Aug - 5 Aug	Introduction to Environmental Studies: Definition and Concept of Environment, Multidisciplinary Nature, Scope, importance of Environmental Studies.
6 Aug, 2023	Sunday
2 nd Week	Concept of Sustainability and Sustainable Development, Need for
7 Aug - 12 Aug	Public Awareness, Institutions of Environment (in India).
13 Aug, 2023	Sunday
3 rd Week	Ecosystem: ecology, characteristic, classification, components of an
14 Aug-19 Aug	ecosystem. Energy flow in the ecosystem.
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4 th Week	Function of an ecosystem, Food Chain, Food Web, Ecological
21 Aug - 26 Aug	Pyramids, Ecological Succession,
27 Aug, 2023	Sunday
5 th Week 28 Aug - 31Aug	Major Types of Ecosystems, Natural Resources, Land Resources.
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

September, 2023 1 st Week 1 Sept - 2 Sept	Forest Resources, Dams, Mining, Water Resources and their Uses, Flood.
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	Drought, Sustainable Water Management, Water Conflicts.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023 3 rd Week	Sunday Energy Resources and its Types, Biodiversity and its Conservation:
11 Sept-16 Sept	definitions, levels of Biodiversity.
17 Sept, 2023 4 th Week 18 Sept - 22 Sept	Sunday Functions of Biodiversity, value of Biodiversity, Threats to Biodiversity.
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023 5 th Week 26 Sept - 30 Sept	Shaeedi Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function Biological Invasion, Bio-Geographical Zones if India, Conservation of Biodiversity.

Lesson Plan for the Odd Semester, 2023 (August - December)

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Environmental Pollution (air, water, thermal, soil, noise, marine and
3 Oct – 7 Oct	nuclear).
8 Oct, 2023	Sunday
2 nd Week	Environmental Policies and Practices: Climate, Global Warming,
9 Oct - 14 Oct	Acid Rain, Ozone Layer Depletion and their impacts on human
	communities.
15.0 (2022	
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Environmental legislation and Law, International Agreements.
16 Oct - 21 Oct	
22 Oct, 2023	Sunday
4 th Week 23 Oct – 27 Oct	The Convention on Biodiversity, Nature reserves, Tribal Populations
25 Oct = 27 Oct	and Rights.
24 Oct, 2023	December
24 Oct, 2023 28 Oct, 2023	Dussehra Maharishi Valmihi Jaranti
29 Oct, 2023	Maharishi Valmiki Jayanti Sunday
5 th Week	Sunday Nuclear Assidents and Holesenst Wester Land Poolemation
30 Oct – 31 Oct	Nuclear Accidents and Holocaust, Waste Land Reclamation.
25 Oct – 4 Nov,	Sessional Exams
2023	

Lesson Plan for the Odd Semester, 2023 (August - December)

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 2 nd Week 6 Nov – 9 Nov	Haryana Day Sunday Human Population And Disaster Management.
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week	Human Rights, Value Education, HIV, Role of it in Environment,
17 Nov - 18 Nov	Social Issues.
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	Environmental Movement and Ethics, Drugs and their Effects and revision.
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 2nd Year Subject- Advanced Calculus Paper- BM - 231

August, 2023 1 st Week 1 Aug - 5 Aug	Continuity, Sequential continuity. Properties of continuous functions with examples.
6 Aug, 2023 2 nd Week	Sunday Uniform continuity, Chain rule of differentiability, Mean value
7 Aug - 12 Aug	theorems; Roll's theorem.
13 Aug, 2023	Sunday
3 rd Week	Lagrange's mean value theorem and their geometrical
14 Aug-19 Aug	interpretations, Taylor's theorem with various form of remainders.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week 21 Aug - 26 Aug	Darboux intermediate value theorem for derivatives, Indeterminate forms.
27 Aug, 2023	Sunday
5 th Week 28 Aug - 31Aug	Indeterminate forms with examples. Limit and continuity of real valued functions of two variables.
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 2nd Year Subject- Advanced Calculus Paper- BM - 231

September, 2023 1 st Week 1 Sept - 2 Sept	Partial differentiation, Total differentials; Composite functions and implicit functions.
3 Sept, 2023 2 nd Week	Sunday Change of variables, Homogeneous functions and Euler's theorem on
4 Sept - 9 Sept	homogeneous function.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week 11 Sept-16 Sept	Taylor's theorem for functions of two variables. Differentiability of real valued functions of two variables.
17 Sept, 2023	Sunday
4 th Week	Schwarz and Young's theorem, Implicit function theorem with
18 Sept - 22 Sept	examples.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	Maxima, Minima and Saddle points of two variables with examples.

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 2nd Year Subject- Advanced Calculus Paper- BM - 231

O-4-1 2022	
October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Lagrange's method of multipliers with examples.
3 Oct – 7 Oct	
8 Oct, 2023	Sunday
2 nd Week	Curves: Tangents, Principal normals with examples.
9 Oct - 14 Oct	
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Binormals, Serret - Frenet formulae with examples.
16 Oct - 21 Oct	
22 Oct, 2023	Sunday
4 th Week	Locus of the centre of curvature Spherical curvature with examples,
23 Oct – 27 Oct	Locus of centre of spherical curvature.
	Locus of contro of spherical culturer
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Involutes with examples and Evolutes with examples.
30 Oct – 31 Oct	
25 Oct – 4 Nov,	Sessional Exams
2023	SUSSIVILAI IZAAIIIS

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 2nd Year Subject- Advanced Calculus Paper- BM - 231

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2 nd Week 6 Nov – 9 Nov	Bertrand curves, Surface: Tangent planes, one parameter family of surfaces, Envelopes.
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week 17 Nov - 18 Nov	Revision of syllabus.
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	Revision of syllabus.
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Dr. Shweta Dhawan Class- B.A/B.Sc (II) Subject- Mathematics Paper- Partial Differential Equations

August, 2023 1 st Week 1 Aug - 5 Aug	Interaction With students
	Discuss Programme outcomes and Course outcomes BASIC ABOUT DIFFERENTIAL EQUATION
6 Aug, 2023	Sunday
2 nd Week 7 Aug - 12 Aug	BASIC ABOUT DIFFERENTIAL EQUATION
	BASIC ABOUT DIFFERENTIAL EQUATION
	PARTIAL DIFFERENTIAL EQUATION
	TYPES OF DIFFERENTIAL EQUATION
	SOME IMPORTANT RESULTS AND FORMULAE
13 Aug, 2023	Sunday
3 rd Week 14 Aug-19 Aug	ORDER AND DEGREE
	LINEAR AND NON LINEAR PARTIAL DIFFERENTIAL EQUATION OF FIRST ORDER
	COMPLETE SOLUTION
	SINGULAR SOLUTION, GENERAL SOLUTION
	CONTINUE
15 Aug, 2023	Independence Day
20 Aug, 2023 4 th Week 21 Aug - 26 Aug	Sunday EXAMPLES
	EXAMPLES
	SOLUTION OF LAGRANGES LINEAR EQUATION
	EXAMPLES
	CONTINUE
27 Aug, 2023	Sunday
5 th Week 28 Aug - 31Aug	CHARPIT GENERAL METHOD OF SOLUTION
	EXAMPLES
	EXAMPLES

	COMPATIBLE SYSTEM OF FIRST ORDER
	EXAMPLES
30 Aug, 2023	Raksha Bandhan
September, 2023 1 st Week 1 Sept - 2 Sept	JACOBIS METHOD
	EXAMPLES
	EXAMPLES
	DOUBTS
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	LINEAR PARTIAL DIFFERENTIAL EQUATION OF SECOND AND HIGHER ORDER
	EXAMPLES
	EXAMPLES
	EXAMPLES
	LINEAR HOMOGENOUS EQUATION
	EXAMPLES
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023 3 rd Week 11 Sept-16 Sept	Sunday NON LINEAR HOMOGENOUS EQUATION
	EXAMPLES
	EXAMPLES
	EXAMPLES
	PARTIAL DIFFERENTIAL EQUATION WITH CONSTANT COEFFICIENTS
	EXAMPLES
17 Sept, 2023	Sunday
4 th Week 18 Sept - 22 Sept	EXAMPLES
	EXAMPLES
	EXAMPLES
	EQUATION REDUCIBLE WITH CONSTANT COEFFICIENTS
	COMPLIMENTARY EQUATION
	EXAMPLES
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023 5 th Week	Annual Prize Distribution Function
5 th week 26 Sept - 30 Sept	EXAMPLES
	PARTICULAR INTEGRALS
	EXAMPLES

	EXAMPLES
	EXAMPLES
	EXAMPLES
October, 2023	Currelau
1 Oct , 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1 st Week	
3 Oct – 7 Oct	EQUATION REDUCIBLE TO LINEAR EQUATION WITH CONSTANT COEFFICIENTS
	EXAMPLES
	EXAMPLES
	DOUBTS
8 Oct, 2023	Sunday
2 nd Week 9 Oct - 14 Oct	CLASSIFICATION OF LINEAR PARTIAL DIFFERENTIAL EQUATION OF SECOND
	CONTINUE
	EXAMPLES
	EXAMPLES
	EXAMPLES
	HYPERBOLIC EQUATION
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	
16 Oct - 21 Oct	EXAMPLES
	EXAMPLES
	EXAMPLES
	PARABOLIC EQUATION
	EXAMPLES
	Elliptic equations and Examples
22 Oct, 2023	Sunday
4 th Week	Revision
23 Oct – 27 Oct	
24 Oct, 2023	Dussehra Maharishi Valmihi Jawarti
28 Oct, 2023 29 Oct, 2023	Maharishi Valmiki Jayanti Sunday
5 th Week	Revision
30 Oct – 31 Oct	
25 Oct – 4 Nov, 2023	Sessionals
November, 2023	
1 st Week	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday

2 nd Week 6 Nov – 9 Nov	REDUCTION OF SECOND ORDER LINEAR P.D.E INTO CANONICAL FORM and related examples , SOLUTION OF LINEAR HYPERBOLIC EQUATION, MONGES METHOD and related examples, CAUCHY PROBLEM FOR SECOND ORDER and related Examples
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week	WAVE EQUATION IN ONEAND TWO DIMENSIONS, related
17 Nov - 18 Nov	examples, METHOD OF SEPERATION OF VARIABLES OF
	LAPLACE EQUATION, related examples, HEAT EQUATION IN ONE AND TWO DIMENSIONS, related examples
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	WAVE EQUATION IN ONEAND TWO DIMENSIONS, related examples, METHOD OF SEPERATION OF VARIABLES OF LAPLACE EQUATION, related examples, HEAT EQUATION IN ONE AND TWO DIMENSIONS, related examples
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms. Meenu Kalra Class- B.Sc./B.A.-II(SEM-III) Subject- MATHEMATICS Paper- STATICS

Forces acting at a point Resultant and its components,Magnitude and direction of its resultant Resolved parts of a force Questions Triangle law of vectors Questions
Sunday
Lamda mew theorem
Lami's theorem
Questions based on Lami's Theorem
Sunday
Conditions of equilibrium of concurrent forces
Revision
Independence Day
Sunday
Equilibrium of bodies placed on a smooth inclined planes
Parallel forces
Resultant of two like and unlike parallel forces acting on a rigid body
Sunday
Questions.
Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms.Meenu Kalra Class- B.Sc./B.A.-II(SEM-III) Subject- MATHEMATICS Paper-STATICS

September, 2023	Continued
1 st Week	Analogue of lami's theorem
1 Sept - 2 Sept	Questions based on analogue of lami's theorem
	Continued
3 Sept, 2023	Sunday
2 nd Week	. Introduction to moments
4 Sept - 9 Sept	Definition of moments
	Varignon's Theorem-when the forces acting at a point
	When the forces are parallel
	Moment of a force about a line
	Continued
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Questions based on moments.
11 Sept-16 Sept	
	Introduction to couples
	Moment of a couple, Sign of a moment of a couple
	Continued.
17 Sept, 2023	Sunday
4 th Week	
18 Sept - 22 Sept	Equilibrium of two couples
	Continued
	Questions.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
23 Sept, 2023 24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	
	Analytical conditions of equilibrium of conlanar forces
26 Sept - 30 Sept	Analytical conditions of equilibrium of coplanar forces Equilibrium of three forces acting at a point
	Questions
	Continued
	Continued

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms.Meenu Kalra Class-B.Sc./B.A.-II(Sem-III) Subject-MATHEMATICS Paper- STATICS

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Trignometrical Theorem.
3 Oct – 7 Oct	Virtual work
	Principle of virtual work
	Introduction to wrenches
	Resultant wrench of two given wrenches
	Find the locus of the central axis, if pitches are given
8 Oct, 2023	SundayNull lines and null planes
	Find the null point of the plane for the system of forces
	Find the condition that straight line may be a null line
	Stable, Unstable and neutral equilibrium.
	Conditions of stability of equilibrium
2 nd Week	Forces which may be omitted in forming the equation of virtual work.
9 Oct - 14 Oct	Questions.
	Continued.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Forces in three dimensions
16 Oct - 21 Oct	Prallelopied law of forces
	Questions
	Axis of couple
22 Oct, 2023	Sunday
4 th Week	Questions. Conditions of equilibrium of a rigid body
23 Oct – 27 Oct	Questions
	Continued
	Poinsot's central axis
	Questions
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Condition in order that a general system of forces in space reduce to a
30 Oct – 31 Oct	single
	Force.
	Equation of central axis
	Conditions of equilibrium of any no. of coplanar forces
25 Oat 4 Norr	Sessional Exams
25 Oct – 4 Nov,	Sessional Exams
2023	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Ms.Meenu Kalra Class-B.Sc./B.A.-II(SEM-III) Subject- MATHEMATICS Paper- STATICS

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 2 nd Week 6 Nov – 9 Nov	Haryana Day Sunday Friction:Introduction Force of friction,coefficient of friction Angle and cone of friction Problems on equilibrium of rods and ladders
10 Nov - 16 Nov , 2023 3 rd Week 17 Nov - 18 Nov	ContinuedDiwali BreakCentre of gravity:C.G. of a uniform rods,C.G. of uniform lamina in form of a parallelogramC.G. of a thin uniform triangular lamina.C.G. of right circular solid cone
19 Nov, 2023 4 th Week 20 Nov - 24 Nov	Sunday Test & Revision
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Silky puri Class- Bca-3rd sem Subject- Mathematics Paper- Computer oriented numerical methods

August, 2023	Iterative Method, Bisection Method
1 st Week	False Position
1 Aug - 5 Aug	Questions
	Newton-Raphson Method
	Questions.
6 Aug, 2023	Sunday
2 nd Week	Iteration Method
7 Aug - 12 Aug	Discussion of convergence
	Questions
	Questions
	Students problems.
13 Aug, 2023	Sunday
3 rd Week	Bairstow's method
14 Aug-19 Aug	Continued
	Computer arithmetic: Floating point representation of numbers
	Arithmetic operations with normalized floating point numbers
	Continued.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Consequences of floating point numbers
21 Aug - 26 Aug	C** (*
	Significant figures
	Error in number representation inherent error, truncation error
	Absolute error
	Relative error.
	Students Problems.
27 Aug, 2023	Sunday
5 th Week	Percentage error
28 Aug - 31Aug	Roundoff error
	Questions
	Questions
	Continued.
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Silky puri Class- Bca-3rd sem Subject- Mathematics Paper- Computer oriented numerical methods

Santamban 2022	Cause Elimination Mathed
September, 2023	Gauss Elimination Method
1 st Week	Questions
1 Sept - 2 Sept	Continued
	Pivoting
	Students Problems.
3 Sept, 2023	Sunday
2 nd Week	Ill conditioned equations
4 Sept - 9 Sept	Refinement of solutions, Gauss seidal iterative method
	Questions
	Continued.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Gauss elimination methods
11 Sept-16 Sept	Pivoting
	Ill-conditioned equations
	Questions.
17 Sept, 2023	Sunday
4 th Week	
18 Sept - 22 Sept	Euler's Method
	Euler modified method
	Taylor-series method
	Questions
	Runga- Kutta Methods
	Questions.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	
26 Sept - 30 Sept	Predictor Corrector Methods
	Questions
	Interpolation and Approximations
	Polynomial interpolation

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Silky puri Class- Bca-3rd sem Subject- Mathematics Paper- Computer oriented numerical methods

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Newton Lagranges Methods
3 Oct – 7 Oct	Difference tables
	Questions.
8 Oct, 2023	Sunday
2 nd Week	Approximation of functions by Taylor Series
9 Oct - 14 Oct	Questions
	Chebyshev polynomial:First kind,Second kind and their relations
	Orthogonal Properties
	Questions.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Numerical Differentiation and integration
16 Oct - 21 Oct	Questions
	Differential equations
	Questions
	Based on polynomials fit, pitfalls in differentiation
	Questions.
22 Oct, 2023	Sunday
4 th Week	Student Problems
23 Oct – 27 Oct	Class test
	Trapezoidal Rule
	Questions
	Questions
	Continued.
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Questions
30 Oct – 31 Oct	
25 Oct – 4 Nov,	Sunday
2023	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Tea	cher –Ms. Silky puri	
Class- Bca-3rd s	Class- Bca-3 rd sem	
Subject- Mathem	natics	
Paper- Comput	ter oriented numerical methods	
November, 2023		
1 st Week	Haryana Day	
1 Nov, 2023	Sunday	
5 Nov, 2023		
2 nd Week	Simpsons Rules	
6 Nov – 9 Nov	Questions.	
10 Nov - 16 Nov , 2023	Diwali Break	
3 rd Week	Gaussian Quardature	
17 Nov - 18 Nov	Questions	
	Questions.	
19 Nov, 2023	Sunday	
4 th Week	Class Test	
20 Nov - 24 Nov	Student Problems	
	Topic wise Problems for students	
	Class test	
	Revision.	
5 th Week 25 Nov, 2023 Onwards	University Examination	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher –Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 3rd Year Subject- Real Analysis Paper- BM - 351

August, 2023	Riemann integral, Integrability of continuous and monotonic
1 st Week	functions.
1 Aug - 5 Aug	
6 Aug, 2023	Sunday
2 nd Week	The fundamental theorem of integral calculus with examples.
7 Aug - 12 Aug	
13 Aug, 2023	Sunday
3 rd Week	Mean value theorems of integral calculus with examples.
14 Aug-19 Aug	
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Improper integral and their convergence with examples.
21 Aug - 26 Aug	
27 Aug, 2023	Sunday
5 th Week	Comparison tests, Abel's test with examples.
28 Aug - 31Aug	
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 3rd Year Subject- Real Analysis Paper- BM - 351

September, 2023 1 st Week 1 Sept - 2 Sept	Dirichlet's test and Frullani's integral.
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	Integral as a function of a parameter, Continuity.
5 Sept, 2023 7 Sept, 2023	Talent Show Janmastami
10 Sept, 2023	Sunday
3 rd Week 11 Sept-16 Sept	Differentiability and integrability of an integral of a function of a parameter.
17 Sept, 2023	Sunday
4 th Week 18 Sept - 22 Sept	Definition and examples of metric spaces.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	Examples of metric spaces, Neighbourhoods.

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 3rd Year Subject- Real Analysis Paper- BM - 351

October, 2023 1 Oct, 2023 2 Oct, 2023 1 st Week 3 Oct – 7 Oct	Sunday Mahatama Gandhi JayantiLimit points, interior points, open sets, Closed sets, Closure and interior.
8 Oct, 2023 2 nd Week 9 Oct - 14 Oct	Sunday Boundary points, subspace of a metric space, equivalent metrics, Cauchy sequences.
15 Oct, 2023 3 rd Week 16 Oct - 21 Oct	Maharaja Agrasen Jayanti, Sunday Completeness, Cantor's intersection theorem, Baire's category theorem, Contraction principle.
22 Oct, 2023 4 th Week 23 Oct – 27 Oct	Sunday Continuous functions, uniform continuity, Compactness for metric spaces, Sequential compactness.
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023 5 th Week 30 Oct – 31 Oct	Dussehra Maharishi Valmiki Jayanti Sunday Bolzano-Weierstrass property, Total boundedness, Finite intersection property.
25 Oct – 4 Nov, 2023	Sessional Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Mrs. Manju Sharma/ Mrs. Anita Class- B.Sc. 3rd Year Subject- Real Analysis Paper- BM - 351

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 2 nd Week 6 Nov – 9 Nov	Haryana Day Sunday Continuity in relation with compactness, Components, Continuity in relation with connectedness.
10 Nov - 16 Nov , 2023 3 rd Week 17 Nov - 18 Nov	Diwali Break Revision of syllabus.
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	Revision of syllabus.
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Dr. Shweta Dhawan Class- B.Sc. III Subject- Mathematics Paper- BM-352...Groups and Rings

August, 2023	Intraction With students
1 st Week	Discuss Programme outcomes and Course outcomes.
1 Aug - 5 Aug	Discuss 1 rogramme outcomes and Course outcomes.
1 Aug - 5 Aug	Binary operation, properties of binary operation, Definition of GROUP,
	SemiGroup, Finite and Infinite Group, Order of a Group, Examples
	based on Group, Examples continued.
6 Aug, 2023	Sunday
2 nd Week	General properties of Groups, Cancellation Laws, Examples, Order of
7 Aug - 12 Aug	an element of a Group, Theorems based on order of an element of a
7 Aug - 12 Aug	Group, Theorems and Examples based on order of an element of a
	Group.
	or outp
13 Aug, 2023	Sunday
3 rd Week	Complexes And subgroups of a Group, Definition of Subgroup, Theorems
14 Aug-19 Aug	based on Subgroup, Theorems continued and Examples based on
	subgroup of a Group, Cyclic Groups,Some theorems on Cyclic Group,
	Examples based on Cyclic Group, Definition of a Coset of a Group,
	Definition of Right Coset and Left Coset of a Group, Theorems on Cosets
15 A 2022	, Examples based on Coset, Definition of index of a subgroup in a Group.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Langrange's Theorem, Some other theorems based on order of an element,
21 Aug - 26 Aug	Test of Group, Subgroup and Cosets, Definition Of Normal Subgroup,
	Simple Subgroup, Some Theorems On Normal Subgroup, Definition of Outcident Crown Theorems on Outcident Crowns, CROUP DISCUSSION
	Quotient Group, Theorems on Quotient Groups, GROUP DISCUSSION ON Group, Subgroup, Coset, Normal Subgroup, Quotient Group.
27 Aug, 2023	Sunday
5 th Week	Homomorphisms Of Groups, Isomorphisms Of Groups, Isomorphic
28 Aug - 31Aug	Groups, Some Theorems On Homomorphisms, Examples Based On
20 Aug - 51Aug	Homomorphisms
	Definition Of Kernel Of Homomorphisms And Examples Based On
	Kernel Of Homomorphisms Of Groups , Fundamental Theorems Of
	Homomorphisms Of Groups, Second Theorem Of Isomorphisms,
	Third Theorem Of Isomorphisms, Defintion Of Automormorphisms Of
	Groups, Examples Based On Automorphisms OF A Group , Definition
	Of Inner Automorphisms, Examples Based On Inner Automorphisms
30 Aug, 2023	Raksha Bandhan

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Dr. Shweta Dhawan Class- B.Sc. III Subject- Mathematics Paper- BM-352...Groups and Rings

September, 2023 Definition Of Inner Automorphisms, Examples Based On Inner 1st Week Automorphisms, Group Of Automorphisms Of A Cyclic Group, Examples Based On Cyclic Groups, Definition Of Centre Of A Group, 1 Sept - 2 Sept Examples And Theorems Based On Centre Of A Group, Definition Of Normalizer Of An Element, Theorems Based On Normalizer And **Centralizer Of An Element Of A Group** 3 Sept, 2023 Sunday 2nd Week **AUTOMORPHISM OF A GROUP – CONTINUED** Theorems Continued Conjugate Subgroup, Commutator Subgroup, 4 Sept - 9 Sept Theorems Based On Commutator Subgroup, Revision Of Homomorphisms, Isomorphisms And Automorphisms , Group Discussion On Normal Subgroup, Simple Group And Quotient Group, Test Of Homomorphisms, Isomorphisms And Automorphisms 5 Sept, 2023 **Talent Show** 7 Sept, 2023 Janmastami 10 Sept, 2023 Sunday 3rd Week **PERMUTATION GROUPS** Definition Of Permutation, Equality Of Permutation, Composition Of 11 Sept-16 Sept Two Functions, Examples Based On Composition Of Two Functions, Identity Permutation, Inverse Of A Permutation, Permutation Group, Cyclic Permutation Of A Group, Examples Based On Cyclic Permutation, Transposition, Disjoint Cycles, Examples Based On Disjoint Cycles, Even And Odd Permutations, Alternating Group, Centre Of Permutation Of A Group, Cayley Theorem, Group **Discussion On Permutation Groups** 17 Sept, 2023 **Sunday** 4th Week **RINGS AND FIELDS** Definition Of Ring And Types Of Rings, Examples, Rings With Or 18 Sept - 22 Sept Without Zero Divisors, Definition Of Integral Domain, Skew Field And Field, Theorems Based On Integral Domain, Skew Field And Field, Examples Based On Integral Domain, Skew Field And Field, Examples **Continued, Definition Of Subrings** 23 Sept, 2023 Shaeedi Divas/Haryana War Heroes' Martyrdom Day 24 Sept, 2023 **Sunday** 25 Sept, 2023 **Annual Prize Distribution Function** 5th Week **SUBRINGS** Definition Of Subrings And Theorems Based On Subrings, Centre Of 26 Sept - 30 Sept A Ring And It's Theorems, Examples, Characteristics Of A Ring And Theorems On Characteristics Of A Ring, Group Discussion On Ring, Subring, Integral Domain, Skew Field And Field, Test Of Ring And Subring, Test Of Field, Subfields And Integral Domain

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Dr. Shweta Dhawan Class- B.Sc. III Subject- Mathematics Paper- BM-352...Groups and Rings

October, 2023	.Groups and Kings
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
	-
1 st Week	IDEALS AND QUOTIENT RINGS
3 Oct – 7 Oct	Definition Of Ideals,Examples Of Ideals,Sum Of Two Ideals,Ideal
	Generated By A Set, Product Of Two Ideals, Theorems On
	Ideals, Definition Of Principal Ideal, Unity Ideal, Maximal Ideal, Theorems
	Based On It,
	Theorems Continued, Examples Based On Principal Ideal, maximal
	IdealAnd Prime Ideal, Examples Continued, Definition Of Quotient Ring
	And Its Examples., Definition Of Ring Homomorphism, Examples And Theorem Record On Its Definition Of Ding Loomorphism
9 Oct 2022	Theorems Based On It, Definition Of Ring Isomorphism
8 Oct, 2023 2 nd Week	Sunday HOMOMORPHISM OF RINGS
2 Week 9 Oct - 14 Oct	Kernel Of A Ring Homomorphism, Theorems Based On Kernel And
9001-1400	Examples, Fundamental Theorem Of Ring Homomorphism, First
	Theorem Of Isomorphism., Second Theorem Of Isomorphism, Examples
	Based On Ring Isomorphism, Embedding Of Rings, Embedded Ring, Set
	Of Quotient Of A Ring, Theorem On Embedded Ring , Theorems
	Continued On Embedded Ring And Examples Based On It.,
	Test Of Topic Ideals And Quotient Rings.
	rest of ropic fucus find Quotient Rings.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	EUCLIDEAN RINGS:
16 Oct - 21 Oct	
	Divisibility In A Commutative Ring, Unit Element, Theorems Based On
	Unit Element, Associates, Prime Element, Irreducible Elements, Gaussian
	Integers, Greatest Common Divisor, Least Common Multiple, Theorems
	Based On L.C.M And G.C.D, Euclidean Domain And Its Theorems,
	Principal Ideal Domain And Its Theorems, Theorems Continued And
	Examples
22 Oct, 2023	Sunday
4 th Week	POLYNOMIAL RINGS:
23 Oct – 27 Oct	Crown Discussion On Fuelidoon Ding Fuelidoon Domain C C D L C M
	Group Discussion On Euclidean Ring, Euclidean Domain, G.C.D, L.C.M,
	Polynomial Rings, Degree Of A Polynomial, Polynomial Over A Ring,
	Polynomial Rings, Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain,
	Polynomial Rings, Degree Of A Polynomial, Polynomial Over A Ring,
24 Oct, 2023	Polynomial Rings, Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain,
24 Oct, 2023 28 Oct, 2023	Polynomial Rings,Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain, Theorems Based On Integral Domain,Dussehra
	Polynomial Rings, Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain, Theorems Based On Integral Domain,
28 Oct, 2023	Polynomial Rings,Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain, Theorems Based On Integral Domain, Dussehra Maharishi Valmiki Jayanti Sunday
28 Oct, 2023 29 Oct, 2023	Polynomial Rings,Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain, Theorems Based On Integral Domain,Dussehra Maharishi Valmiki Jayanti SundayPolynomial Over A Field and Theorems Based On It, Ring Of Polynomials In
28 Oct, 2023 29 Oct, 2023 5 th Week	Polynomial Rings,Degree Of A Polynomial, Polynomial Over A Ring, Embedding Of R Into R[X], Polynomials Over An Integral Domain, Theorems Based On Integral Domain, Dussehra Maharishi Valmiki Jayanti Sunday

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Dr. Shweta Dhawan Class- B.Sc. III Subject- Mathematics Paper- BM-352...Groups and Rings

25 Oct – 4 Nov, 2023	Sessionals and Topic Continued
November, 2023 1 st Week	
1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2 nd Week 6 Nov – 9 Nov	POLYNOMIAL RINGS CONTINUED
	Divisor,Unit Element,Associates,Proper And Improper Divisors,Reducible And irreducible Element , G.C.D,Relatively Prime, Algorithm For R[X], Remainder Theorem., Theorems And Examples Based On Principal Ideal Domain
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week 17 Nov - 18 Nov	Definition Of Unique Factorization Domain And Theorems Based On U.F.D
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	Definition Of Unique Factorization Domain And Theorems Based On U.F.D continued
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – MS. SILKY PURI Class- B.SC.III Subject- MATHEMATICS Paper- BM-353(NUMERICAL ANALYSIS)

August, 2023 1 st Week	Finite difference operators,finding the missing terms and effect of errors in a difference tabular values.
1 Aug - 5 Aug	
6 Aug, 2023	Sunday
2 nd Week	Interpolation with equal and unequal intervals.Newton's forward
7 Aug - 12 Aug	interpolation formula.newton's Backward interpolation formula
5 5	
13 Aug, 2023	Sunday
3 rd Week	Newton's divided difference.Lagrange's interpolation
14 Aug-19 Aug	formula.Hermite's formula.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Central difference operators, Gauss forward interpolation formula
21 Aug - 26 Aug	,Gauss backward interpolation formula.Sterling formula,Bessel's
	formula.
27 Aug, 2023	Sunday
5 th Week	Numerical differentiation, probability distribution of random
28 Aug - 31Aug	variable.
30 Aug, 2023	Raksha Bandhan
50 mug, 2025	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – MS. SILKY PURI Class- B.SC.III Subject- MATHEMATICS Paper- BM-353(NUMERICAL ANALYSIS)

September, 2023 1 st Week 1 Sept - 2 Sept	Binomial distribution, poisson's distribution, normal distribution.
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	Mean ,variance and fitting.introduction to eigen values problems.
5 Sept, 2023 7 Sept, 2023 10 Sept, 2023	Talent Show Janmastami Sunday
3 rd Week 11 Sept-16 Sept	Power method ,jacobi's method,given's method,House holder method
17 Sept, 2023	Sunday
4 th Week 18 Sept - 22 Sept	QR method,lanczo's method.
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	Numerical integration .Numerical cote's quadrature formula.

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – MS. SILKY PURI Class- B.SC.III Subject- MATHEMATICS Paper- BM-353(NUMERICAL ANALYSIS)

October, 2023 1 Oct, 2023Sunday Mahatama Gandhi Jayanti1stWeek 3 Oct – 7 OctTrapezoidal rule, simpson's one third rule and three eight rule8 Oct, 2023Sunday2ndWeek 9 Oct - 14 OctChebyshev formula and Gauss quadrature formula.15 Oct, 2023Maharaja Agrasen Jayanti, Sunday3rdWeek 9 Oct - 21 OctNumerical solution of ordinary differential equations, single step method :picard method, taylor's method.22 Oct, 2023Sunday4thWeek 9 Cit - 21 Oct24 Oct, 2023Sunday4thEuler's method ,Runga –kutta method .Multistep method:predictor- corrector method.23 Oct - 27 OctDussehra Sunday24 Oct, 2023Dussehra Sunday25 Oct - 4 Nov, 2023Sessional Exams20 Oct, 2023Sessional Exams	Ostahan 2022	
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5th Week 30 Oct - 31 OctRevision and tests.25 Oct - 4 Nov,Sessional Exams	29 Oct, 2023	Sunday
25 Oct – 4 Nov, Sessional Exams		
	30 Oct – 31 Oct	Revision and tests.
	25 Oct – 4 Nov,	Sessional Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher-MS. SILKY PURI Class- B.SC.III Subject- MATHEMATICS Paper- BM-353(NUMERICAL ANALYSIS)

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2 nd Week 6 Nov – 9 Nov	Revision and tests.
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week 17 Nov - 18 Nov	Revision and tests.
19 Nov, 2023	Sunday
4 th Week 20 Nov - 24 Nov	Revision and tests.
5 th Week 25 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Vandana Sharma Class- M.Sc.(P) Subject- Advanced Abstract Algebra Paper- MM-401

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3 rd Week	Discussion about course outcomes and programme outcomes
17 Aug-19 Aug	Automorphisms and Inner automorphisms of a group G. The groups
	Aut(G) and Inn(G).
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Automorphism group of a cyclic group. Normalizer and Centralizer of a
21 Aug - 26 Aug	non-empty subset of a group G.
27 Aug, 2023	Sunday
5 th Week	Conjugate elements and conjugacy classes. Class equation of a finite
28 Aug - 31Aug	group G and its applications. Derived group (or a commutator subgroup)
	of a group G. perfect groups. Zassenhau's Lemma.
30 Aug, 2023	Raksha Bandhan
September, 2023	Normal and Composition series of a group G. Scheier's refinement
1 st Week	theorem. Jordan Holder theorem. Composition series of groups of order p ⁿ
1 Sept - 2 Sept	and of Abelian groups
	OI
3 Sept, 2023	Sunday
2 nd Week	Cauchy theorem for finite groups. \prod - groups and p-groups. Sylow \prod -
4 Sept - 9 Sept	subgroups and Sylow p-subgroups. Sylow's Ist, IInd and IIIrd theorems.
	Application of Sylow theory to groups of smaller orders

5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Examples based on theories. Test.
11 Sept-16 Sept	Examples based on theories. Test.
17 Sept, 2023	Sunday
4 th Week	Characteristic of a ring with unity. Prime fields Z/pZ and Q. Field
18 Sept - 22 Sept	extensions. Degree of an extension. Algebraic and transcendental
	elements. Simple field extensions. Minimal polynomial of an algebraic
	element.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Conjugate elements. Algebraic extensions. Finitely generated algebraic
26 Sept - 30 Sept	extensions. Algebraic closure and algebraically closed fields.
Ostabor 2022	
October, 2023 1 Oct , 2023	Sunday
	Sunday Mahatama Candhi Jayanti
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Splitting fields., finite fields Normal extensions.Separable elements,
3 Oct – 7 Oct	separable polynomials and separable extensions
8 Oct, 2023	Sunday
2 nd Week	Splitting fields., finite fields Normal extensions.Separable elements,
9 Oct - 14 Oct	separable polynomials and separable extensions
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Theorem of primitive element. Perfect fields. Galois extensions. Galois
16 Oct - 21 Oct	group of an extension. Dedekind lemma Fundamental theorem of Galois
	theory.
22 Oct 2022	
22 Oct, 2023	Sunday
4 th Week	Frobenius automorphism of a finite field. Klein's 4-group and Diheadral
23 Oct – 27 Oct	group. Galois groups of polynomials. Fundamental theorem of Algebra.
24 Oct 2022	Dussehue
24 Oct, 2023	Dussehra Maharishi Valmiki Javanti
28 Oct, 2023	Maharishi Valmiki Jayanti Sunday
29 Oct, 2023 5 th Week	Solvable groups Derived series of a group G. Simplicity of the Alternating
30 Oct – 31 Oct	Solvable groups Derived series of a group G. Simplicity of the Alternating group $A_{-}(n \ge 5)$ Non solvability of the symmetric group Sn and the
30 Oct - 31 Oct	group A_n (n \geq 5). Non-solvability of the symmetric group Sn and the

	Alternating group An (n \geq 5). Roots of unity Cyclotomic polynomials and their irreducibility over Q
25 Oct – 4 Nov, 2023	Galois radical extensions. Cyclic extensions. Solvability of polynomials by radicals over Q. Symmetric functions and elementary symmetric functions. Construction with ruler and compass only.
November, 2023	
1 st Week	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday
2 nd Week	Revision
6 Nov – 9 Nov	
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week	Sessionals.
17 Nov - 18 Nov	
19 Nov, 2023	Sunday
4 th Week	Sessionals.
20 Nov - 28 Nov	
5 th Week 28 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher - Ms. Deepika Class- M.Sc. (Sem-I) Subject- Mathematics Paper- Real Analysis-I

August, 2023	Discussion about course outcomes and programme outcomes
3 rd Week	Section-I, An Introduction to Riemann Stieltjes Integral, Definition of Riemann
16 Aug-19 Aug	Stieltjes Integral, Existence of Riemann Stieltjes Integral, Properties of the
	Riemann Stieltjes Integral. Integration and Differentiation under integral.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Integration and Differentiation under integral continued, The Fundamental
21 Aug - 26 Aug	Theorem of Integral Calculus, Introduction to Integration by Parts.
27 Aug, 2023	Sunday
5 th Week	Introduction of vector-valued functions, Introduction to Rectifiable curves.
28 Aug - 31Aug	Section-II: Introduction to point-wise and uniform convergence.
30 Aug, 2023	Raksha Bandhan
September, 2023	Difference between point-wise and uniform convergence, Cauchy criterion
1 st Week	for uniform convergence, Introduction to Weirstrass M-test, Abel's test
1 Sept - 2 Sept	and Dirichlet's test for uniform convergence.
3 Sept, 2023	Sunday
2 nd Week	Introduction to uniform convergence and continuity, Uniform convergence
4 Sept - 9 Sept	and Riemann Stieltjes Integration.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Uniform convergence and differentiation, Existence of a real continuous
11 Sept-16 Sept	nowhere differentiable function. Introduction to equi-continuous families
	of functions.
17 Sept, 2023	Sunday
4 th Week	Difference between continuous, uniform continuous and equi-continuous
18 Sept - 22 Sept	functions, Weierstrass approximation theorem
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Section-III, Introduction of Linear transformations, derivative in an open
26 Sept - 30 Sept	subset, Stokes Theorem.
	Discuss student problems. Test

October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Chain rule, partial derivatives, directional derivatives, the contraction
3 Oct – 7 Oct	principle
8 Oct, 2023	Sunday
2 nd Week	Inverse Function Theorem, Implicit Function Theorem.
9 Oct - 14 Oct	Introduction to Jacobians, extremum problems with constraints, Lagrange's Multiplier method.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Derivatives of higher order, Mean value theorem for real functions of two
16 Oct - 21 Oct	variables.
	Interchange of order of differentiation and differentiation of integrals.
22 Oct, 2023	Sunday
4 th Week	Discuss student problems on Section-III.
23 Oct – 27 Oct	Section-IV, Introduction to Power Series. Uniqueness theorem for power
	Series, Abel's lemma and Abel's theorem.
	Tauber's theorem.
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Taylor's theorem, Exponential and Logarithmic functions, trigonometric
30 Oct – 31 Oct	functions, Fourier series, Gamma function
November, 2023	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday
1 st Week	An Introduction to Integration of differential forms.
2 Nov – 4 Nov	Partitions of Unity and differential forms.
2 nd Week	Stokes Theorem.
6 Nov – 9 NOV	Discuss student problems.
	Test
10 Nov - 16 Nov	Diwali Break
, 2023	DIWAII БГЕАК
19 Nov, 2023	Sunday
3 rd to 5 th Week	Sessional Exams
17 Nov - 28 Nov	
5 th Week	
28 Nov, 2023	University Examination
Onwards	
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Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Deepika Class - M.Sc. (Sem - I) Subject - Mathematics Paper- Topology-I (MM-402)

August, 2023	Discussion about course outcomes and programme outcomes
3 rd Week	Definition and examples of a topological spaces, Neighbourhoods,
16 Aug - 19 Aug	
	Neighbourhood system of a point and its properties, Interior point and
	interior of a set, interior as an operator and its properties, Definition of
	closed set as complement of open set.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Limit point of a set, derived set of a set, definition of closure of a set as
21 Aug - 26 Aug	union of the set and its derived set, Adherent point(Closure point) of a set,
	closure of a set as set of adherent point, properties of closure, closure as an
	operator and its properties.
27 Aug, 2023	Independence Day
- / Hug, -0-0	Sunday
5 th Week	Boundary of a set, dense sets, a characterization of dense sets, Base for a
28 Aug - 31Aug	topology and its characterization, Base for neighbourhood system, sub-
	base for a topology.relative topology and subspace of a T.S.
30 Aug, 2023	Raksha Bandhan
September, 2023	Alternate examples of defining a topology using properties of
1 st Week	'Nbd system', 'interior operator', 'closed sets', kuratowski closure
1 Sept - 2 Sept	operator and base.
3 Sept, 2023	Sunday
2 nd Week	First countable, second countable and separable spaces, their
4 Sept - 9 Sept	relationships and hereditary property, About countability of a collection
	of disjoint open sets in a separable and a second countable space,
	Lindelof theorem, Comparison of topologies on a set.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	About intersection and union of topologies, Infimum and supremum of a
11 Sept-16 Sept	collection of topologies on a set, The collection of all topologies on a set
	as a complete lattice, Definition, examples and characterizations of
	continuous functios, Composition of continuous functions, open and

	closed functions, Homeomorphism.
17.8	
17 Sept, 2023 4 th Week 18 Sept - 22 Sept	Sunday Embedding, tychonoff product topology in terms of standard sub-base, Related examples, Projection maps, their continuity and openness characterization of product topology as the smallest topology with projection continuous, Continuity of a function from a space into a product of spaces. T0, T1 space.
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	T2, Regular and T3 separation axioms, their characterization, Examples on these spaces, Basic properties i.e. hereditary property of T0, T1, regular and T3 spaces, Do some practice sum, About hausdorffness of quotient space, Productive property of T1 and T2 spaces, Quotient topology w.r.t. a map, Related examples.
October, 2023 1 Oct , 2023 2 Oct, 2023 1 st Week	Sunday Mahatama Gandhi Jayanti
3 Oct – 7 Oct	Continuity of a function with domain a space having quotient space, Completely regular and tychonoff spaces, their hereditary and productive properties, Embedding lemma and embedding theorem.
8 Oct, 2023	Sunday
2 nd Week 9 Oct - 14 Oct	Normal and T4 spaces: definitions and examples, Test and revision, Solve Practice sum and discuss them, Urysohn's lemma, complete regularity of a regular normal space, T4 implies tychonoff, Tietze's extention theorem (statement only).
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week 16 Oct - 21 Oct	Definition and examples of filters on a set, Collection of all filters on a set as a p.o. set, finer filters, Methods of generating filters/finer filters, ultra filter (u.f.) and its characterizations, Ultra filter principle, Image of filter under a function, Convergence of filters : limit point and limit of a filter and relationship between them.
22 Oct, 2023	Sunday
4 th Week 23 Oct – 27 Oct	Continuity in terms of convergence of filters, hausdorffness and filter convergence, Test and revision, Continuity and compact set, compactness and separation properties.
	COMPACTNESS: definitions and examples of compact spaces, Definition of a compact subset as a compact subspace, Related examples
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023 5 th Week	Dussehra Maharishi Valmiki Jayanti Sunday
30 Oct – 31 Oct	Relation of open cover of a subset of a T.S. in the subspace with that in the main space, Compactness in terms of finite intersection property (f.i.p.), Regularity and normality of a compact hausdroff space, Compactness and filter convergence, Convergence of filter in a product space, Tychonoff product theorem using filters.

November, 2023 1 st Week 1 Nov, 2023 5 Nov, 2023 1 st Week 2 Nov – 4 Nov	Haryana Day Sunday Tychonoff space as a subspace of a compact hausdroff space and its Converse, related examples, Compactness and hausdroff compactification,
	Test, Stone- Cech compactification.
2 nd Week 6 Nov – 9 Nov	Closedness of compact subset, closedness of continuous map from a compact space into a hausdroff space and its convergence, Group discussion on different topologies, Test and revision
3 rd Week 10 Nov - 16 Nov , 2023	Diwali Break
19 Nov, 2023	Sunday
4 th Week 17 Nov - 28 Nov	Sessional Exams
5 th Week 28 Nov, 2023 Onwards	University Examination

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Monila Bansal Class- M.sc. (Sem-I) Subject- Mathematics Paper- Complex Analysis-I (MM-404)

August,2023	Discussion about course outcomes and programme outcomes
3rd Week	An introduction to Complex enclusion
17 Aug-19 Aug	An introduction to Complex analysis
	Introduction to power series and its convergence
15 4 2022	
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Theorems based on sum, product of power series and its radius of
21 Aug - 26 Aug	convergence
	Examples based on radius of convergence
	Differentiability of sum function of power series
27 Aug, 2023	Sunday
5 th Week	Exp(z) and its properties
28 Aug - 31Aug	Theorem based on branch of logarithm
	Power of a complex number, their branches and analyticity
	Definition :path in a region, smooth path, contour, simple connected region
	and multiple connected region
	Theorem based on bounded variation and total variation
30 Aug, 2023	Raksha Bandhan
September, 2023	Cauchy goursat theorem and its examples
1 st Week	
1 Sept - 2 Sept	
3 Sept, 2023	Sunday
2 nd Week	Cauchy theorem for simply and multiple connected domain
4 Sept - 9 Sept	Cauchy integral formula
	Extension of Cauchy integral formula for multiple connected domain
	Higher order derivative of Cauchy integral formula
	Examples related to Cauchy integral formula
	Gauss mean value theorem
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Morera's theorem
11 Sept-16 Sept	Fundamental theorem of algebra
TT Scht-In Scht	

Cauchy inequality and liouville's theorem17 Sept. 2023Sunday4th WeekWinding number of a closed curve with some properties18 Sept - 22 SeptEntire function and its radius of convergence Taylor's theorem23 Sept. 2023Shacedi Divas/Haryana War Heroes' Martyrdom Day Sunday23 Sept. 2023Shacedi Divas/Haryana War Heroes' Martyrdom Day Sunday24 Sept. 2023Shacedi Divas/Haryana War Heroes' Martyrdom Day Sunday25 Sept. 2023Shacedi Divas/Haryana War Heroes' Martyrdom Day Sunday26 Sept. 30 SeptExample related to laurent's series Maximum modulus principle Minimum modulus principle Schwarz lemma0ctober, 2023Sunday Mahatama Gandhi Jayanti1* WeekSingularity and their classification Pole of a function and its order Examples based on rouche's theorem2* WeekCassorati-weierstrass theorem Moromorphic function application function Argument principle Rouche's theorem9 Oct - 14 OctMaharaja Agrasen Jayanti, Sunday3* WeekInverse function theorem Example based on rouche's theorem Example based on rouche's theorem Example based on rouche's theorem15 Oct, 2023Sunday3* WahekInverse function theorem Example based on residue of a pole Residue at infinity22 Oct, 2023Sunday3* WeekInverse function theorem Example based on residue theorem Example based on residue theorem16 Oct - 21 OctCauchy residue theorem Example based on residue theorem Example based on residue theorem Example based on residue theorem23 Oct - 27 OctTheorem based on r		
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24 Oct, 2023 Dussehra		
		Example on Cauchy residue theorem
28 Oct, 2023 Maharishi Valmiki Javanti		Dussehra
	28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023 Sunday		Sunday
5 th Week Integral type I and its examples		Integral type I and its examples
30 Oct – 31 Oct	30 Oct – 31 Oct	
November, 2023 Integral type II	November, 2023	Integral type II
1 st week Integral type III and its examples	1 st week	Integral type III and its examples

2 Nov- 4Nov	
2023	Haryana Day
5 Nov, 2023	Sunday
2 nd Week	Integral type IV
6 Nov – 9 Nov	Bilinear transformation ,their properties
	Critical points
	Cross ratio and its example
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week	Sessional Exams
17 Nov – 28 Nov	
28 Nov,2023 onwards	University Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher - Ms. Deepika Class- M.Sc. (Sem-I) Subject- Mathematics Paper- Differential Equations-I

3 rd Week	Discussion about course outcomes and programme outcomes
16 Aug-19 Aug	Discussion about course outcomes and programme outcomes
i ing i ing	Definition of initial value problem and equivalent integral equation,
	Definition of E-approximate solution and examples, Equi-continuous set
	of functions, Ascoli -Arzela theorem, Cauchy-Peano existence theorem
	and its corollary.
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Definition of Lipschitz condition and examples, Differential inequalities
21 Aug - 26 Aug	and uniqueness, Gronwall's inequality, Successive approximation with
	examples, Group discussion, Picard-Lindelof theorem.
27 Aug, 2023	Sunday
5 th Week	Continuation of solution, Maximal interval of existence, Extension
28 Aug - 31Aug	theorem, Kneser's theorem (statement only), Revision, Definition and
	notations of linear differential system.
30 Aug, 2023	Raksha Bandhan
September, 2023	
1 st Week	Definition and notations of linear differential system, Linear homogenous system, Definition of fundamental matrix and Adjoint
1 Sept - 2 Sept	system, Reduction to smaller homogenous system, Non-homogeneous
1 Sept 2 Sept	linear system.
3 Sept, 2023	Sunday
2 nd Week	Variation of constant, Linear system with constant coefficients, Linear
4 Sept - 9 Sept	system with periodic coefficients, Floquet theory.
i Sept 9 Sept	system with periodic coefficients, rioquet theory.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Linear differential equation of order n, Linear combinations and examples,
11 Sept-16 Sept	Linear dependence and linear independence solutions.
17 Sept, 2023	Sunday
4 th Week	Definition, necessary and sufficient condition for linear dependence and
18 Sept - 22 Sept	linear independent solutions of homogeneous linear differential equation,
_ *	Abel's Identity.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday

25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Fundamental set, More Wronskian theory and examples, Reduction of
26 Sept - 30 Sept	order.
October, 2023 1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Non-homogenous linear differential equation, Variation of parameters,
3 Oct – 7 Oct	Adjoint Equations, Lagrange's Identity.
8 Oct, 2023	Sunday
2 nd Week	Green's formula, Linear equation of order n with constant coefficients,
9 Oct - 14 Oct	Numericals, Test.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	System of differential equations, The n-th order equation, Dependence of
16 Oct - 21 Oct	solutions on initial conditions and parameters,
	Examples, Preliminiaries.
22 Oct, 2023	Sunday
4 th Week	Theorem of wintner, Uniqueness theorems: Kamke's theorem, Nagumo's
23 Oct – 27 Oct	theorem, Osgood theorem.
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	
30 Oct – 31 Oct	Group discussion, Revision, Test, Numerical of Lipschitz condition.
November, 2023	
1 st Week	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday
2 nd	Numerical of picard- lindelof theorem, Numerical of fundamental matrix,
2 Nov – 4 Nov	Numerical of variation of parameters.
10 Nov - 16 Nov ,	
2023	Diwali Break
2 nd Week	Numerical of Wronskian theory, Numerical of linear combinations, linear
6 Nov- 9 Nov	dependent and independent solutions, Group discussion
10 Nov 2022	Sunday
19 Nov, 2023 4 th Week	Sunday Sessional Exams
4 Week 17 Nov - 28 Nov	SUSSIVIIAI LIXAIIIS
ath yes a	
5 th Week	
28 Nov, 2023	University Examination
Onwards	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Vandana Sharma	
Class- M.Sc.(F)	
Subject- Functional Analysis	
Paper- MM-501	
August, 2023	Discussion about course outcomes and programme outcomes
1 st Week	Normed linear spaces, Banach spaces and examples, subspace of a Banach
1 Aug - 5 Aug	space, completion of a normed space.
6 Aug, 2023	Sunday
2 nd Week	Quotient space of a normed linear space and its completeness, product of
7 Aug - 12 Aug	normed spaces.finite dimensional normed spaces and subspaces,
	equivalent norms, compactness and finite dimension, F.Riesz's lemma.
13 Aug, 2023	Sunday
3 rd Week	Bounded and continuous linear operators, differentiation operator, integral
14 Aug-19 Aug	operator, bounded linear extension, linear functional, bounded linear
15 4 2022	functional, continuity and boundedness definite integral,
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Canonical mapping, linear operators and functional on finite dimensional
21 Aug - 26 Aug	spaces, normed spaces of operators, dual spaces with examples.
27 Aug, 2023	Sunday
5 th Week	Examples based on theories. Test.
28 Aug - 31Aug	
30 Aug, 2023	Raksha Bandhan
September, 2023	Hahn-Banach theorem for real linear spaces, complex linear spaces and
1 st Week	normed linear spaces.
1 Sept - 2 Sept	application to bounded linear functionals on C[a,b].
1 Sept 2 Sept	appreation to bounded milear functionals on e[u,o].
3 Sept, 2023	Sunday
2 nd Week	Riesz-representation theorem for bounded linear functionals on C[a,b].
4 Sept - 9 Sept	Riesz-representation theorem for bounded linear functional on C[a,b],
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Adjoint operator, norm of the adjoint operator. Reflexive spaces, uniform
11 Sept-16 Sept	boundedness theorem. Some of its applications to the space of
	polynomials
17 Sept, 2023	Sunday
4 th Week	Fourier series. Strong and weak convergence, weak convergence in l^{p}
18 Sept - 22 Sept	Convergence of sequences of operators, uniform operator convergence
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Strong operator convergence, weal operator convergence. strong and

26 Sept - 30 Sept	weak* convergence of a sequence of functionals. Open mapping
	theorem, bounded inverse theorem. closed linear operators, closed graph theorem, differential operator
October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Relation between closedness and boundedness of a linear operator. Inner
3 Oct – 7 Oct	product spaces, Hilbert spaces and their examples, pythagorean theorem,
	Apolloniu's identity, Schwarz inequality, continuity of innerproduct,
	completion of an inner product space.
8 Oct, 2023	Sunday
2 nd Week	Subspace of a Hilbert space, orthogonal complements and direct sums,
9 Oct - 14 Oct	projection theorem, characterization of sets in Hilbert spaces whose space
	is dense. Orthonormal sets and sequences, Bessel's inequality, series
15.0 / 2022	related to orthonormal sequences and sets.
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Sesquilinear forms on a Hilbert space. total(complete) orthonormal sets
16 Oct - 21 Oct	and sequences, Parseval's identity, separable Hilbert
	spaces.Representation of functionals on Hilbert spaces, Riesz
	representation theorem for bounded linear functionals on a Hilbert space,
22 Oct, 2023	sesquilinear form, Riesz representation theorem for bounded Sunday
4 th Week	Hilbert adjoint operator, its existence and uniqueness, properties of Hilbert
23 Oct – 27 Oct	adjoint operators, self adjoint, unitary, normal, positive and projection
	operators.
24 0 -4 2022	Dussehra
24 Oct, 2023 28 Oct, 2023	Dussenra Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Problem taking week of section-1
30 Oct – 31 Oct	
25 Oct – 4 Nov,	Numericals based on Theorems.
2023	
November, 2023	
1 st Week	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday
2 nd Week	Revision
6 Nov – 9 Nov 10 Nov - 16 Nov	
	Diwali Break
, 2023 3 rd Week	Sessionals.
17 Nov - 18 Nov	50551011A15.
	Sunday
19 Nov, 2023 4 th Week	Sunday Sessionals.
4 week 20 Nov - 28 Nov	55551011 a 15.
20 110V - 20 110V	

5 th Week	
28 Nov, 2023	University Examination
Onwards	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Monila Bansal Class- M.sc. (Sem-III) Subject- Mathematics Paper- Analytic Mechanics and Calculus of Variation (MM-502)

4 4 4 4 4 4 4	
August, 2023	Discussion about course outcomes and program outcomes
1 st Week	
1 Aug - 5 Aug	An introduction to functional
	Some basic theorem of calculus of variation
	Fundamental lemma of calculus of variation
	Euler,s theorem,Examples related to euler's theorem
	Shortest distance, minimum surface of revolution
6 Aug, 2023	Sunday
2 nd Week	Brachristochrone problem,
7 Aug - 12 Aug	Euler's equation for one dependent function of one and several
	independent theorem
	Functional depending on'n' dependent functions,
	Example based on functional depending on 'n' dependent functions
13 Aug, 2023	Sunday
3 rd Week	Functional depending on higher order derivative
14 Aug-19 Aug	Examples related to higher order derivative
	variational derivative
	Invariance of euler's equation and related examples
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Natural boundary conditions
21 Aug - 26 Aug	isoperimetric problem
	geodesic
27 Aug, 2023	Sunday
5 th Week	Transversality condition
28 Aug - 31Aug	Conditional extremum under geometric constraints and under integral
	constraints
30 Aug, 2023	Raksha Bandhan
September, 2023	Variable end points
1 st Week	And related examples
1 Sept - 2 Sept	
3 Sept, 2023	Sunday
2 nd Week	Test
4 Sept - 9 Sept	Free and constrained systems
	Constraints and their classification
5 Sept, 2023	Talent Show
- · · · · · · · · · · · · · · · · · · ·	Janmastami
10 Sept, 2023	Sunday
1 Sept - 2 Sept 3 Sept, 2023 2 nd Week 4 Sept - 9 Sept 5 Sept, 2023 7 Sept, 2023	Sunday Test Free and constrained systems Constraints and their classification Talent Show Janmastami

ardate	
3 rd Week	Holonomic and non holonomic systems
11 Sept-16 Sept	Scleronomic and rheonomic systems
	Generalized coordinates
	Generalized potential
	Possible and virtual displacement
	Ideal constraints
17 Sept, 2023	Sunday
4 th Week	General equation of dynamics
18 Sept - 22 Sept	
	Lagrange's equation of first kind
	Principle of virtual displacements, D'Alembert principle
	Holonomic system independent coordinate
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Generalized forces
26 Sept - 30 Sept	Lagrange's equations of second kind
	Uniqueness of solution
	Theorem on variation of total energy
	Gyroscopic and dissipative forces
October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Lagrange's equation for potential forces equation for conservative fields
3 Oct – 7 Oct	Hamilton's variables
	Don kin's theorem,
	Hamilton canonical equation
8 Oct, 2023	Sunday
2 nd Week	Routh's equation
9 Oct - 14 Oct	Cyclic coordinates
	Poisson's bracket ,poisson's identity
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Jacobi Poisson theorem
16 Oct - 21 Oct	Hamilton's principle
	Second form of Hamilton's principle
	Poincare carton integral invariant
22 Oct, 2023	Sunday
4 th Week	Whittaker's equation
23 Oct – 27 Oct	Jacobi equation
	Principle of least action
	Canonical transformation
	Free canonical transformation
	Hamilton Jacobi equation
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Jacobi theorem
30 Oct – 31 Oct	Method of separation of variables for solving Hamilton -jacobi equation
November, 2023	Testing the companies laborator of a transformation
1 st week	Testing the canonical character of a transformation Lagrange's bracket

2 Nov- 4Nov	
1Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2 nd Week 6 Nov – 9 Nov	Condition of canonical character of a transformation Simplicial nature of a Jacobi matrix of a Canonical transformation Invariance of Lagrange's brackets and Poisson brackets under canonical transformation
10 Nov - 16 Nov	Diwali Break
3 rd Week 17 Nov – 28 Nov	Sessional Exams
28 Nov,2023 onwards	University Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. Vandana Sharma Class- M.Sc.(F) Subject- Elasticity Paper- MM-503(Opt(i))

Tuper mini eve	
August, 2023 1 st Week	Discussion about course outcomes and program outcomes
1 Aug - 5 Aug	Tensor, Properties of tensors, Isotropic tensors of different orders and relation between them.
6 Aug, 2023	Sunday
2 nd Week	Symmetric and skew symmetric tensors. Tensor invariants, Deviatoric tensors,
7 Aug - 12 Aug	Eigen-values and eigen-vectors of a tensor.
13 Aug, 2023	Sunday
3 rd Week 14 Aug-19 Aug	Tensor Analysis: Scalar, vector, tensor functions, Comma notation, Gradient •
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Divergence and curl of a vector / tensor field. Analysis of Strain : Affine
21 Aug - 26 Aug	transformation, Infinitesimal affine deformation.
27 Aug, 2023	Sunday
5 th Week	Geometrical Interpretation of the components of strain. Strain quadric of
28 Aug - 31Aug	Cauchy. Principal strains and invariance.
30 Aug, 2023	Raksha Bandhan
September, 2023	General infinitesimal deformation. Saint-Venant's equations of compatibility.
1 st Week	Finite deformations.
1 Sept - 2 Sept	
3 Sept, 2023	Sunday
2 nd Week	Analysis of Stress : Stress Vector, Stress tensor, Equations of equilibrium,
4 Sept - 9 Sept	Transformation of coordinates.
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Mohr's circles, examples of stress. Equations of Elasticity : Generalised Hooks
11 Sept-16 Sept	Law
17 Sept, 2023	Sunday

4 th Week	
18 Sept - 22 Sept	
	Anisotropic symmetries, Homogeneous isotropic medium.
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
· · · · · · · · · · · · · · · · · · ·	
5 th Week	Elasticity moduli for Isotropic media. Equilibrium and dynamic equations for an
26 Sept - 30 Sept	isotropic elastic solid.
October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Strain energy function and its connection with Hooke's Law, Uniqueness of
3 Oct – 7 Oct	solution.
8 Oct, 2023	Sunday
2 nd Week	Beltrami-Michell compatibility equations, problem discussion, test.
	Bentrami-ivitchen compationity equations, problem discussion, test.
9 Oct - 14 Oct	
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Clapeyron's theorem. Saint-Venant's principle. problem discussion, test.
16 Oct - 21 Oct	
22 Oct, 2023	Sunday
4 th Week	Revision
23 Oct – 27 Oct	
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Revision
30 Oct – 31 Oct	NEVISIOII
50 000 - 51 000	
25 Oct – 4 Nov,	Numericals based on Theorems.
2023	
November, 2023	
1 st Week	
1 Nov, 2023	Haryana Day
5 Nov, 2023	Sunday
2 nd Week	Revision
6 Nov – 9 Nov	
10 Nov - 16 Nov ,	
2023	Diwali Break
3 rd Week	Sessionals.
17 Nov - 18 Nov	
19 Nov, 2023	Sunday
4 th Week	Sessionals.
20 Nov - 28 Nov	
5 th Week	
28 Nov, 2023	University Examination
Onwards	Chrystey Baummuton
Uliwalus	

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Monila Bansal Class- M.sc. (Sem-III) Subject- Mathematics Paper- Fluid Mechanics-I (MM-504 opt i)

August, 2023 1 st Week	Discussion about course outcomes and program outcomes
1 Aug - 5 Aug	An introduction to fluid dynamics
ing they	Some basic definition of fluid mechanics
	Velocity at a point of a fluid
	Lagrangian and Eulerian methods
	Relationship between Lagrangian and Eulerian methods
6 Aug, 2023	Sunday
2 nd Week	Stream lines, path lines and streak lines
7 Aug - 12 Aug	Vorticity and circulation
	Vortex lines
	Material derivative of fluid
13 Aug, 2023	Sunday
3 rd Week	Acceleration of a fluid
14 Aug-19 Aug	Significance of equation of continuity,
	Equation of continuity in vector form
	Equation of continuity in Cartesian form
	Equation of continuity by lagrangian method
	Equivalence relation between lagrangian and eulerian equation of
	continuity
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	General analysis of fluid motion
21 Aug - 26 Aug	Boundary surfaces and boundary surface conditions
	Properties of fluids-static and dynamic pressure
	Irrotational and rotational motion, velocity potential
27 Aug, 2023	Sunday
5 th Week	Reynolds transport theorem
28 Aug - 31Aug	Euler's equation of motion
	Conservative forces
30 Aug, 2023	Raksha Bandhan
September, 2023	Lagrange's equation of motion
1 st Week	Bernouilli's theorem
1 Sept - 2 Sept	
T Schr - 7 Schr	
3 Sept, 2023	Sunday
2 nd Week	Application of Bernouilli's equation in one dimensional flow problems

4 Sept - 9 Sept	Test
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Kelvin circulation theorem
11 Sept-16 Sept	Kelvin minimum energy theorem
	Vorticity equation
17 Sept, 2023	Sunday
4 th Week	Energy equation for incompressible flow
18 Sept - 22 Sept	Kinetic energy of irrotational flow
	Mean potential over spherical surface
	Kinetic energy of infinite liquid
	Uniqueness theorem
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	Definition of real fluid and ideal fluid
26 Sept - 30 Sept	Stress component in a real fluid
	Relation between rectangular component of stress
October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	Connection between stresses and gradients of velocity
3 Oct – 7 Oct	Navier stoke's equation of motion
	Steady flow between two parallel plates
	Plane poiseuille flow
9 Oct 2022	Couette flow
8 Oct, 2023 2 nd Week	Sunday Deduction of newion stake equation in flows having axis of symmetry
9 Oct - 14 Oct	Reduction of navier stoke equation in flows having axis of symmetry Steady flow in circular pipe
9 001 - 14 001	Hagen poiseuille flow
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	
16 Oct - 21 Oct	Steady flow between two coaxial cylinders Flow between two concentric rotating cylinders
22 Oct, 2023	Sunday
4 th Week	Related examples
23 Oct – 27 Oct	Corollary of rotating cylinde
	Steady flow through tubes of uniform cross section
	Uniqueness theorem
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Ellipse cross section
30 Oct – 31 Oct	Equilateral triangle cross section
November, 2023	Rectangular cross section under constant pressure
1 st week	Example based on coaxial cylinders
2 Nov- 4Nov	Example based on stress strain relation

2023 5 Nov, 2023	Haryana Day Sunday
2 nd Week 6 Nov – 9 Nov	Some important examples Revision of syllabus
10 Nov - 16 Nov , 2023	Diwali Break
3 rd Week 17 Nov – 28 Nov	Sessional Exams
28 Nov,2023 onwards	University Exams

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Monila Bansal Class- M.sc. (Sem-III) Subject- Mathematics Paper- Integral Equation (MM-505 opt i)

August, 2023	Discussion about course outcomes and program outcomes
1 st Week	Definition of integral equation and their classifications
1 Aug - 5 Aug	Eigen values and eigen functions,
	Special kinds of kernel, convolution integral
	The inner or scalar product of two functions
6 Aug, 2023	Sunday
2 nd Week	Reduction to a system of algebraic equations
7 Aug - 12 Aug	Examples related to algebraic equation
13 Aug, 2023	Sunday
3 rd Week	Fredholm alternative
14 Aug-19 Aug	Fredholm theorem
	Fredholm alternative theorem
15 Aug, 2023	Independence Day
20 Aug, 2023	Sunday
4 th Week	Approximate method
21 Aug - 26 Aug	Related examples
	Method of successive approximation
27 Aug, 2023	Sunday
5 th Week	Iterative scheme for fredholm and volterra integral equation
28 Aug - 31Aug	Conditions of uniform convergence and uniqueness of series solution
	Resolvent kernel and related examples
	Theorem based on resolvent kernel
30 Aug, 2023	Raksha Bandhan
September, 2023	Classical fredholm's theory, the method of solution fredholm equation
1 st Week	
1 Sept - 2 Sept	
2 Sout 2022	Sunday
3 Sept, 2023	Sunday
2 nd Week	Fredholm's first theorem
4 Sept - 9 Sept	Examples of Fredholm's first theorem
5 Sept, 2023	Talent Show
7 Sept, 2023	Janmastami
10 Sept, 2023	Sunday
3 rd Week	Fredholm's second theorem
J ⁻ Week	Frequenti s second theorem

11 Sept-16 Sept	Fredholm's third theorem
17 Sept, 2023	Sunday
4 th Week	Examples related to fredholm's theorem
18 Sept - 22 Sept	Symmetric kernels
	Complex Hilbert space
	Orthonormal system of functions
	Riesz – Fisher theorem
23 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day
24 Sept, 2023	Sunday
25 Sept, 2023	Annual Prize Distribution Function
5 th Week	A complete two dimensional orthonormal set over rectangle
26 Sept - 30 Sept	Fundamental properties of eigenvalues and eigen functions for symmetric
	kernels
October, 2023	
1 Oct , 2023	Sunday
2 Oct, 2023	Mahatama Gandhi Jayanti
1 st Week	expansion in eigen functions and bilinear form
3 Oct – 7 Oct	Hilbert-schmidt theorem and some immediate consequences
8 Oct, 2023	Sunday
2 nd Week	Definite kernels and Mercer's theorem
9 Oct - 14 Oct	Solution of a symmetric integral equation
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week	Approximation of a general l ₂ —kernel by a separable kernel
16 Oct - 21 Oct	The operator method in theory of integral equations
	Rayleigh-ritz method for finding the first eigen value
	Related examples
22 Oct, 2023	Sunday
4 th Week	Inversion formula for singular integral equation
23 Oct – 27 Oct	And related examples
24 Oct, 2023	Dussehra
28 Oct, 2023	Maharishi Valmiki Jayanti
29 Oct, 2023	Sunday
5 th Week	Test
30 Oct – 31 Oct	Cauchy's principal value for integral solution
November, 2023	Cauchy type singular integral equation
1 st week	Closed and unclosed contours
2 Nov- 4Nov	
2023	Haryana Day
5 Nov, 2023	Sunday
2 nd Week	Riemann Hilbert problem
6 Nov – 9 Nov	The Hilbert –Kernel solution of the Hilbert type singular integral equation
10 Nov - 16 Nov	
	Diwali Proak
, 2023	Diwali Break
, 2023 3 rd Week	Diwali Break Sessional Exams

28 Nov,2023	University Exams
onwards	