

Dayanand Mahila Mahavidyalaya, Kurukshetra					
Lesson Plan (Odd Semester)					
Session 2023-24 (04.08.2023 to 24.11.2023)					
Name of teacher: Dr. Upasana Ahuja And Ms. Sukriti					
Subject:-Mathematics					
Date	Class :-B.sc 2nd year Semester :-3rd(statics)	Class:-B.sc3rd year Semester :-5th(groups and rings)	Class:-B.sc 1st year Semester:-1st(practical)	Class B.Com I Semester I	Class :-B.C.A 1st year Semester I
04.08.2023		ch-1 introduction,binary operation,some properties of binary operation,algebraic	basics of MAXIMA Software ,basic terms used		Basics of set theory,their representations,empty set,finite and infinite set
05.08.2023		order of group,finite and infinite groups,	basics of cartesian coordinates,polar coordinates,parametric form		Subset,equal sets,power set and based examples
07.08.2023	ch:-1 Introduction of force acting at a point			Orientation for 1st year students	union and intersection of set,difference of two sets,complement of sets and based example
08.08.2023	Parallelogram law of force,magnitude and direction of the resultant			Introduction to basic operations,solution of quadratic equations	union and intersection of set,difference of two sets,complement of sets and based example
09.08.2023	examples of exercise 1.1	integral power of element,general properties of group		Set Thoery : Definitions of set, finite set, infinite set, empty set, singleton set, equal sets with examples	union and intersection of set,difference of two sets,complement of sets and based example
10.08.2023	remaining example of 1.1	based examples			union and intersection of set,difference of two sets,complement of sets and based example
11.08.2023		order of element of group,related theorems	program 1(learn to use basic operator and functions in maxima software)		
12.08.2023		complexes and subgroup of a group	program run,problem of curve tracing when equation is in cartesian coordinates		
14.08.2023	topic-components of a given force in two direction			Definitions of cardinal no. of set, equivalent sets, subsets, power set, comparable sets with examples	practicum-1 problem related to union,intersection,difference and complement of sets
15.08.2023	Independence Day				
16.08.2023	resolved part of a given force and based examples	product and interection of subgroups,related theorem		Definitions of universal sets, complement of set, Venn diagrams, union of sets with examples	
17.08.2023	triangle law of forces and based examples	cyclic group,some theorems on cyclic group			venn diagram+based examples
18.08.2023		based examples and problem related to ch-1	simplify algebraic expression and expression containing radicals,logarithmic,exponentials and trigonometric functions+run program on maxima software		De-Morgan's Laws and their applications
19.08.2023		test	problem of curve tracing when equation is given in polar coordinates and parametric form		based examples
21.08.2023	important theorem and based examples			Definitions of intersection of sets, properties of union and intersection, disjoint sets, symmetric differnece of sets with examples	practicum-2 problem based on De Morgan's Laws
22.08.2023	lami's theorem and based examples			De Morgan's laws with examples, Practical operations of set operations with examples	practicum-3 problem related to Venn Diagram
23.08.2023	polygon law of forces and based examples	ch-2 cosets,some theorem on cosets		Practical operations of set operations with examples	

Date	Class :-B.sc 2nd year Semester :-3rd(statics)	Class:-B.sc3rd year Semester :-5th(groups and rings)	Class:-B.sc 1st year Semester:-1st(practical)	Class B.Com I Semester I	Class :-B.C.A 1st year Semester I
24.08.2023	resultant of any number of concurrent and coplanar forces	index of subgroups,relation of congruence modulo,lagrange theorem			Introduction to matrices and their types and based examples
25.08.2023		normal subgroups,simple group,some theorem	expand algebraic,rational,trigonometric and logarithmic expressions+run this on maxima software		Basic operations on matrices and based examples
26.08.2023		quotient group,some theorem and examples	problem of determination of length of a curve expressed in cartesian coordinates,polar coordinates		multiplications of matrices and based examples
28.08.2023	condition of equilibrium of concurrent forces and based examples			Logical statements, truth table, conjunction, disjunction and based examples	transpose of matrix,symmetric and skew symmetric matrices and based examples
29.08.2023	equilibrium of bodies placed on a smooth inclined plane and based examples			Conditional statement, biconditional statement, Tautologies and based examples	Determinant,minor and cofactor of a matrix and based examples,singular and non singular matrices,properties of determinant
30.08.2023	Raksha Bandhan				
31.08.2023	problem based on ch-1	ch-3 introduction,homomorphism and isomorphism of groups			Adjoint of a matrix,inverse of a square matrix and based examples
01.09.2023		some theorems and based examples	viva-voce+checking of practical record		solution of system of linear equations and based examples
02.09.2023		fundamental theorem on homomorphism of group,second,third theorem of isomorphism	find derivatives of algebraic,trigonometric,exponential and logarithmic functions		solution of system of linear equations using matrices
04.09.2023	ch-2 introduction of parallel forces			Logarithms, product formula, quotient formula and based examples	practicum - 4 problems to find inverse of a matrix
05.09.2023	important theorem and based examples		find derivatives of algebraic,trigonometric,exponential and logarithmic functions		practicum-5 problem to find determinant of a square matrix of order 3
06.09.2023					
07.09.2023	examples based on parallel forces	automorphism of group and examples		Characteristic, Mantissa, table of logarithms, anti-logarithms and based examples	quadratic equations,solution of quadratic equations
08.09.2023		group of automorphism of group,inner automorphism	find derivatives of algebraic,trigonometric,exponential and logarithmic functions		based examples
09.09.2023		some theorems and based examples	problem of determination of radius of curvature expressed in cartesian,polar coordinates and parametric form		test
11.09.2023	ch-3 introduction of moments and based examples			Characteristic, Mantissa, table of logarithms, anti-logarithms and based examples	viva-voce+checking of practical record
12.09.2023	varignon's theorem and based examples			Sequence, its types, Arithmetic Progression and based examples	viva-voce+checking of practical record
13.09.2023	important theorem and based examples	center of a group,theorem		Sum of n terms of A.P, examples	
14.09.2023	examples based on moment	example related to center and characteristics			Equations reduce to quadratic equation and based examples
15.09.2023		normalizer,some theorem	problem of determination of radius of curvature expressed in cartesian,polar coordinates and parametric form		Formation and solution of word problems involving quadratic equations and based examples

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16.09.2023		commutator and some theorems	problem of determination of radius of curvature expressed in cartesian,polar coordinates and parametric form		problem related to quadratic equations
18.09.2023	examples based on ch-4			Geometric Progression,sum of n terms of G.P and based examples	practicum 6 problems involving formulation and solution of quadratic equations in one variable
19.09.2023	ch-5 introduction of analytical condition of equilibrium of co-planer forces			Sum of G.P upto infinity and based examples	practicum 6 problems involving formulation and solution of quadratic equations in one variable
20.09.2023	based examples	ch-4 permutation groups,product of permutation,examples		Application of A,P and G.P to Business problems	
21.09.2023	problem based on ch-5	identify permutation,inverse permutation,symmetric group			Sequence,finite and infinite sequence and based examples
22.09.2023		cyclic permutation,transposition,alternating group,cayley theorem	viva-voce+checking of practical record		arithmetic progression(A.P) ,nth term of A.P,properties of an A.P and based examples
23.09.2023	Shaheedi Diwas/Haryana War Heroes' Martyrdom Day				
25.09.2023	ch-6 introduction of friction			Definition of Matrix, order, its types and examples	Sum of 'n' terms of an A.P and based examples
26.09.2023	examples based on friction			Determinant of matrices of order 2 and 3 and properties of determinants and based examples	Geometric progression(G.P),general term of a G.P and based examples
27.09.2023	examples based on friction	ch-5 introduction ring,types of ring and examples of ring		Properties of matrix(addition, negative, scalar multiplication) and examples	
28.09.2023	examples based on friction	integral domain,division ring,field			test
29.09.2023		subring,some theorems on subring	problem of successive differentiation		Sum of first 'n' terms of G.P and based examples,sum of a G.P upto infinity and based examples
30.09.2023		center of ring,examplescharacteristic of ring,some theorems	problem of successive differentiation		Harmonic progression,nth term of H.P and based examples
02.10.2023	Mahatma Gandhi Jayanti				
03.10.2023	problem related to ch-6			Matrix multiplication and based examples	Arithmetic Mean(A.M) ,A.M between a and b,insert n A.M's between a and b,sum of n A.M between 2 numbers and based examples
04.10.2023	ch-7 introduction of centre of gravity	assignment+test		Matrix multiplication and based examples + Test and Assignment	
05.10.2023	important theorem on centre of gravity	ch-6 introduction,some definition of ideals,sum and product of ideals			gemetric mean and harmonic mean and based examples,relation between A.M,G.M And H.M
06.10.2023		related theorem,simple ring,prime ideal	find indefinite integrals of different functions		problem related to A.P,G.P And H.P
07.10.2023		maximal ideal,prime ideal,co maximal ideal and based examples	find definite integrals of different functions		test
09.10.2023	examples based on centre of gravity			Integral power of matrix, symmetric and skew-symmetric matrix and based examples	practicum-7 problem to find nth term of A.P,G.P And H.P
10.10.2023	centre of gravity and based examples			Adjoint and inverse of matrix and based examples	Practicum-8 problem to find sum of n terms of A.P,G.P and H.P
11.10.2023	examples based on ch-7	quotient ring and based theorems and chapter related problems		Adjoint and inverse of matrix and based examples	

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12.10.2023	test of ch-1+assignment	test+ch-7 ring homomorphism,based theorms			Limit of a function,algebra of limit,derivative of a function,differential coeficiant,method to find derivative of a function from first principle and based examples
13.10.2023		kernel of ring homomorphism,theorem,based examples	viva-voce+checking of practical record		Limit of a function,algebra of limit,derivative of a function,differential coeficiant,method to find derivative of a function from first principle and based examples
14.10.2023		embedded ring,field of quotient of integral domain,based examples	viva-voce+checking of practical record		general theorem on differentiation and based examples
16.10.2023	problem related to ch-7			Solution of system of linear equations and based examples	Practicum-9 problem to find A.M,G.M and H.M
17.10.2023	ch-8 introduction of virtual work,principle of virtual work			Solution of system of linear equations using matrices and based examples	viva-voce+checking of practical record
18.10.2023	based examples	problem related to ch-7		Simple interest, compound interest and based examples	
19.10.2023	based examples and related problem	ch-8 introduction,divisibility in commutative ring,theorems			differentiation of product of two functions and based examples,derivative of function of function(chain rule) and based examples
20.10.2023		prime element,irreducible element,g.c.d,l.c.m,theorems,euclidean rings and examples	problem of determination of volume and surface of solids of revolution for parametric and polar curve		differentiation of trigonometric functions and based examples
21.10.2023		principle ideal domain,theorem and eexamples	problem of determination of volume and surface of solids of revolution for parametric and polar curve		differentiation of logarithmic and exponential functions and based examples
23.10.2023	test of ch-4			Compound interest and based examples +test and assignment	differentiation of implicit functions and based examples and application of derivatives and based examples
24.10.2023	Dussehra				
25.10.2023	ch-9 introduction of forces in three dimensions and based theorems	problem related to ch-8+test		Continuos compounding of interest, Problems on effective rate of interest, depriciation and population with examples	
26.10.2023	based examples	ch-9 polynomial ring,theorems			differentiation of implicit functions and based examples and application of derivatives and based examples
27.10.2023		based examples	To plot curves involving cartesian,parametric and polar form		problem related to derivative
28.10.2023	Maharishi Valmiki Jayanti				
30.10.2023	problem related to ch-9			Continuos compounding of interest, Problems on effective rate of interest, depriciation and population with examples	practicum 10 problem to find first derivative of a functions
31.10.2023	test			Annuties, its types and examples based on different types	viva-voce+checking of practical record
01.11.2023	Haryana Day				
02.11.2023	ch-10 introduction of wrenches and based theorem	based examples+problem related to ch-9			viva-voce+checking of practical record

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03.11.2023		test	To plot curves involving cartesian,parametric and polar form		problem discussed related to set theory
04.11.2023		revision of unit-1	To demonstrate singular points		test of ch-1
06.11.2023	ch-11 introduction of null lines and null planes			Annuities, its types and examples based on different types	viva-voce+written test of practicum
07.11.2023	problem related to ch-11			Annuities, its types and examples based on different types	viva-voce+checking of practical record
08.11.2023	test of ch11	test+revision of unit 2		Solutions of practical problems to annutiess	
09.11.2023	ch-12 introduction of stable,unstable and neutral equilibrium	revision of unit2			problem related to unit 2
10.11.2023 to 16.11.2023	Diwali Vacations				
17.11.2023		test	viva-voce+checking of practical record		test of unit 1 and 2
18.11.2023		revision of unit 3	viva-voce+checking of practical record		discussion of test
20.11.2023	problem related to ch-12			Present value and amount of annuity when interest is compounded continuously and based examples	problem discussed related to unit 3
21.11.2023	test			Present value and amount of annuity when interest is compounded continuously and based examples	problem discussed related to unit 4
22.11.2023	Revision	revision of unit 4		Revision of Complete syllabus	
23.11.2023	test	full test			revision
24.11.2023		test discussed	viva-voce+checking of practical record		full test
25.11.2023	Examinations Onwards				

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Subject:-Mathematics					
Date	Class :-B.sc 2nd year Semester :-3rd(statics)	Class:-B.sc3rd year Semester :-5th(groups and rings)	Class:-B.sc 1st year Semester:-1st(practical)	Class B.Com I Semester I	Class :-B.C.A 1st year Semester I
04.08.2023		ch-1 introduction,binary operation,some properties of binary operation,algebraic	basics of MAXIMA Software ,basic terms used		Basics of set theory,their representations,empty set,finite and infinite set
05.08.2023		order of group,finite and infinite groups,	basics of cartesian coordinates,polar coordinates,parametric form		Subset,equal sets,power set and based examples
07.08.2023	ch:-1 Introduction of force acting at a point			Orientation for 1st year students	union and intersection of set,difference of two sets,complement of sets and based example
08.08.2023	Parallelogram law of force,magnitude and direction of the resultant			Introduction to basic operations,solution of quadratic equations	union and intersection of set,difference of two sets,complement of sets and based example
09.08.2023	examples of exercise 1.1	integral power of element,general properties of group		Set Thoery : Definitions of set, finite set, infinite set, empty set, singleton set, equal sets with examples	union and intersection of set,difference of two sets,complement of sets and based example
10.08.2023	remaining example of 1.1	based examples			union and intersection of set,difference of two sets,complement of sets and based example
11.08.2023		order of element of group,related theorems	program 1(learn to use basic operator and functions in maxima software)		
12.08.2023		complexes and subgroup of a group	program run,problem of curve tracing when equation is in cartesian coordinates		
14.08.2023	topic-components of a given force in two direction			Definitions of cardinal no. of set, equivalent sets, subsets, power set, comparable sets with examples	practicum-1 problem related to union,intersection,difference and complement of sets
15.08.2023	Independence Day				
16.08.2023	resolved part of a given force and based examples	product and interection of subgroups,related theorem		Definitions of universal sets, complement of set, Venn diagrams, union of sets with examples	
17.08.2023	triangle law of forces and based examples	cyclic group,some theorems on cyclic group			venn diagram+based examples
18.08.2023		based examples and problem related to ch-1	simplify algebraic expression and expression containing radicals,logarithmic,exponentials and trigonometric functions+run program on maxima software		De-Morgan's Laws and their applications
19.08.2023		test	problem of curve tracing when equation is given in polar coordinates and parametric form		based examples
21.08.2023	important theorem and based examples			Definitions of intersection of sets, properties of union and intersection, disjoint sets, symmetric differnece of sets with examples	practicum-2 problem based on De Morgan's Laws
22.08.2023	lami's theorem and based examples			De Morgan's laws with examples, Practical operations of set operations with examples	practicum-3 problem related to Venn Diagram
23.08.2023	polygon law of forces and based examples	ch-2 cosets,some theorem on cosets		Practical operations of set operations with examples	

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24.08.2023	resultant of any number of concurrent and coplanar forces	index of subgroups,relation of congruence modulo,lagrange theorem			Introduction to matrices and their types and based examples
25.08.2023		normal subgroups,simple group,some theorem	expand algebraic,rational,trigonometric and logarithmic expressions+run this on maxima software		Basic operations on matrices and based examples
26.08.2023		quotient group,some theorem and examples	problem of determination of length of a curve expressed in cartesian coordinates,polar coordinates		multiplications of matrices and based examples
28.08.2023	condition of equilibrium of concurrent forces and based examples			Logical statements, truth table, conjunction, disjunction and based examples	transpose of matrix,symmetric and skew symmetric matrices and based examples
29.08.2023	equilibrium of bodies placed on a smooth inclined plane and based examples			Conditional statement, biconditional statement, Tautologies and based examples	Determinant,minor and cofactor of a matrix and based examples,singular and non singular matrices,properties of determinant
30.08.2023	Raksha Bandhan				
31.08.2023	problem based on ch-1	ch-3 introduction,homomorphism and isomorphism of groups			Adjoint of a matrix,inverse of a square matrix and based examples
01.09.2023		some theorems and based examples	viva-voce+checking of practical record		solution of system of linear equations and based examples
02.09.2023		fundamental theorem on homomorphism of group,second,third theorem of isomorphism	find derivatives of algebraic,trigonometric,exponential and logarithmic functions		solution of system of linear equations using matrices
04.09.2023	ch-2 introduction of parallel forces			Logarithms, product formula, quotient formula and based examples	practicum - 4 problems to find inverse of a matrix
05.09.2023	important theorem and based examples		find derivatives of algebraic,trigonometric,exponential and logarithmic functions		practicum-5 problem to find determinant of a square matrix of order 3
06.09.2023					
07.09.2023	examples based on parallel forces	automorphism of group and examples		Characteristic, Mantissa, table of logarithms, anti-logarithms and based examples	quadratic equations,solution of quadratic equations
08.09.2023		group of automorphism of group,inner automorphism	find derivatives of algebraic,trigonometric,exponential and logarithmic functions		based examples
09.09.2023		some theorems and based examples	problem of determination of radius of curvature expressed in cartesian,polar coordinates and parametric form		test
11.09.2023	ch-3 introduction of moments and based examples			Characteristic, Mantissa, table of logarithms, anti-logarithms and based examples	viva-voce+checking of practical record
12.09.2023	Varignon's theorem and based examples			Sequence, its types, Arithmetic Progression and based examples	viva-voce+checking of practical record
13.09.2023	important theorem and based examples	center of a group,theorem		Sum of n terms of A.P, examples	
14.09.2023	examples based on moment	example related to center and characteristics			Equations reduce to quadratic equation and based examples
15.09.2023		normalizer,some theorem	problem of determination of radius of curvature expressed in cartesian,polar coordinates and parametric form		Formation and solution of word problems involving quadratic equations and based examples

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16.09.2023		commutator and some theorems	problem of determination of radius of curvature expressed in cartesian,polar coordinates and parametric form		problem related to quadratic equations
18.09.2023	examples based on ch-4			Geometric Progression,sum of n terms of G.P and based examples	practicum 6 problems involving formulation and solution of quadratic equations in one variable
19.09.2023	ch-5 introduction of analytical condition of equilibrium of co-planer forces			Sum of G.P upto infinity and based examples	practicum 6 problems involving formulation and solution of quadratic equations in one variable
20.09.2023	based examples	ch-4 permutation groups,product of permutation,examples		Application of A,P and G.P to Business problems	
21.09.2023	problem based on ch-5	identify permutation,inverse permutation,symmetric group			Sequence,finite and infinite sequence and based examples
22.09.2023		cyclic permutation,transposition,alternating group,cayley theorem	viva-voce+checking of practical record		arithmetic progression(A.P) ,nth term of A.P,properties of an A.P and based examples
23.09.2023	Shaheedi Diwas/Haryana War Heroes' Martyrdom Day				
25.09.2023	ch-6 introduction of friction			Definition of Matrix, order, its types and examples	Sum of 'n' terms of an A.P and based examples
26.09.2023	examples based on friction			Determinant of matrices of order 2 and 3 and properties of determinants and based examples	Geometric progression(G.P),general term of a G.P and based examples
27.09.2023	examples based on friction	ch-5 introduction ring,types of ring and examples of ring		Properties of matrix(addition, negative, scalar multiplication) and examples	
28.09.2023	examples based on friction	integral domain,division ring,field			test
29.09.2023		subring,some theorems on subring	problem of successive differentiation		Sum of first 'n' terms of G.P and based examples,sum of a G.P upto infinity and based examples
30.09.2023		center of ring,examplescharacteristic of ring,some theorems	problem of successive differentiation		Harmonic progression,nth term of H.P and based examples
02.10.2023	Mahatma Gandhi Jayanti				
03.10.2023	problem related to ch-6			Matrix multiplication and based examples	Arithmetic Mean(A.M) ,A.M between a and b,insert n A.M's between a and b,sum of n A.M between 2 numbers and based examples
04.10.2023	ch-7 introduction of centre of gravity	assignment+test		Matrix multiplication and based examples + Test and Assignment	
05.10.2023	important theorem on centre of gravity	ch-6 introduction,some definition of ideals,sum and product of ideals			gemetric mean and harmonic mean and based examples,relation between A.M,G.M And H.M
06.10.2023		related theorem,simple ring,prime ideal	find indefinite integrals of different functions		problem related to A.P,G.P And H.P
07.10.2023		maximal ideal,prime ideal,co maximal ideal and based examples	find definite integrals of different functions		test
09.10.2023	examples based on centre of gravity			Integral power of matrix, symmetric and skew-symmetric matrix and based examples	practicum-7 problem to find nth term of A.P,G.P And H.P
10.10.2023	centre of gravity and based examples			Adjoint and inverse of matrix and based examples	Practicum-8 problem to find sum of n terms of A.P,G.P and H.P
11.10.2023	examples based on ch-7	quotient ring and based theorems and chapter related problems		Adjoint and inverse of matrix and based examples	

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12.10.2023	test of ch-1+assignment	test+ch-7 ring homomorphism,based theorms			Limit of a function,algebra of limit,derivative of a function,differential coeficiant,method to find derivative of a function from first principle and based examples
13.10.2023		kernel of ring homomorphism,theorem,based examples	viva-voce+checking of practical record		Limit of a function,algebra of limit,derivative of a function,differential coeficiant,method to find derivative of a function from first principle and based examples
14.10.2023		embedded ring,field of quotient of integral domain,based examples	viva-voce+checking of practical record		general theorem on differentiation and based examples
16.10.2023	problem related to ch-7			Solution of system of linear equations and based examples	Practicum-9 problem to find A.M,G.M and H.M
17.10.2023	ch-8 introduction of virtual work,principle of virtual work			Solution of system of linear equations using matrices and based examples	viva-voce+checking of practical record
18.10.2023	based examples	problem related to ch-7		Simple interest, compound interest and based examples	
19.10.2023	based examples and related problem	ch-8 introduction,divisibility in commutative ring,theorems			differentiation of product of two functions and based examples,derivative of function of function(chain rule) and based examples
20.10.2023		prime element,irreducible element,g.c.d,l.c.m,theorems,euclidean rings and examples	problem of determination of volume and surface of solids of revolution for parametric and polar curve		differentiation of trigonometric functions and based examples
21.10.2023		principle ideal domain,theorem and eexamples	problem of determination of volume and surface of solids of revolution for parametric and polar curve		differentiation of logarithmic and exponential functions and based examples
23.10.2023	test of ch-4			Compound interest and based examples +test and assignment	differentiation of implicit functions and based examples and application of derivatives and based examples
24.10.2023	Dussehra				
25.10.2023	ch-9 introduction of forces in three dimensions and based theorems	problem related to ch-8+test		Continuos compounding of interest, Problems on effective rate of interest, depriciation and population with examples	
26.10.2023	based examples	ch-9 polynomial ring,theorems			differentiation of implicit functions and based examples and application of derivatives and based examples
27.10.2023		based examples	To plot curves involving cartesian,parametric and polar form		problem related to derivative
28.10.2023	Maharishi Valmiki Jayanti				
30.10.2023	problem related to ch-9			Continuos compounding of interest, Problems on effective rate of interest, depriciation and population with examples	practicum 10 problem to find first derivative of a functions
31.10.2023	test			Annuties, its types and examples based on different types	viva-voce+checking of practical record
01.11.2023	Haryana Day				
02.11.2023	ch-10 introduction of wrenches and based theorem	based examples+problem related to ch-9			viva-voce+checking of practical record

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03.11.2023		test	To plot curves involving cartesian,parametric and polar form		problem discussed related to set theory
04.11.2023		revision of unit-1	To demonstrate singular points		test of ch-1
06.11.2023	ch-11 introduction of null lines and null planes			Annuities, its types and examples based on different types	viva-voce+written test of practicum
07.11.2023	problem related to ch-11			Annuities, its types and examples based on different types	viva-voce+checking of practical record
08.11.2023	test of ch11	test+revision of unit 2		Solutions of practical problems to annutiess	
09.11.2023	ch-12 introduction of stable,unstable and neutral equilibrium	revision of unit2			problem related to unit 2
10.11.2023 to 16.11.2023	Diwali Vacations				
17.11.2023		test	viva-voce+checking of practical record		test of unit 1 and 2
18.11.2023		revision of unit 3	viva-voce+checking of practical record		discussion of test
20.11.2023	problem related to ch-12			Present value and amount of annuity when interest is compounded continuously and based examples	problem discussed related to unit 3
21.11.2023	test			Present value and amount of annuity when interest is compounded continuously and based examples	problem discussed related to unit 4
22.11.2023	Revision	revision of unit 4		Revision of Complete syllabus	
23.11.2023	test	full test			revision
24.11.2023		test discussed	viva-voce+checking of practical record		full test
25.11.2023	Examinations Onwards				

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2023-24 (04.08.2023 to 24.11.2023)

Name of teacher : Mrs. Prabhjot Kaur

Subject : Mathematics

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
04.08.2023	Orientation for Ist year students	Orientation for Ist year students	Orientation for Ist year students		
05.08.2023	Derivative of a function		Introduction to basic operations,solution of quadratic equations		
07.08.2023		Introduction to basic operations,solution of quadratic equations		Introduction to course and some basic definitions	
08.08.2023		Set Thoery : Definitions of set, finite set, infinite set, empty set, singleton set, equal sets with examples		Definitions of contuinuity, discontinuity and sequential contuinuity	
09.08.2023				Theorems and examples based in contuinuity	Introduction to course and some basic definitions
10.08.2023	Some standard results of integration	Definitions of cardinal no. of set, equivalent sets, subsets, power set, comparable sets with examples	Set Thoery : Definitions of set, finite set, infinite set, empty set, singleton set, equal sets with examples		Finite difference operators : Forward and Backward differences and based examples
11.08.2023	Limit of a function and left,right hand limits and examples of limits		Definitions of cardinal no. of set, equivalent sets, subsets, power set, comparable sets with examples		
12.08.2023	Continuos and discontinuos functions and examples of continuity		Definitions of universal sets, complement of set, Venn diagrams, union of sets with examples		

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
14.08.2023		Definitions of universal sets, complement of set, Venn diagrams, union of sets with examples		Uniform continuity, theorems and examples	
15.08.2023	Independence Day				
16.08.2023					Shift Operator, Effect of error in a tabular value and based examples
17.08.2023	Classification of discontinuities	Definitions of intersection of sets, properties of union and intersection, disjoint sets, symmetric difference of sets with examples	Definitions of intersection of sets, properties of union and intersection, disjoint sets, symmetric difference of sets with examples		Interpolation with equal intervals : Newton Gregory formula for forward interpolation with examples
18.08.2023	Introduction of successive differentiation and examples of nth derivatives		De Morgan's laws with examples, Practical operations of set operations with examples		
19.08.2023	Leibnitz's theorem and based examples		Practical operations of set operations with examples		
21.08.2023		De Morgan's laws with examples, Practical operations of set operations with examples		Chain rule of differentiability and examples, Mean value theorems; Rolle's theorem, geometrical interpretation and examples	
22.08.2023		Practical operations of set operations with examples		Lagrange's Mean value theorem and examples	
23.08.2023				Taylor's theorem with various forms of remainders and examples	Newton Gregory formula for backward interpolation with examples

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
24.08.2023	Introduction of differentiable functions and Taylor's theorem with Lagrange's form of remainder after 'n' terms	Quadratic equations, solution of complete quadratic equations using method of factorisation with examples	Logical statements, truth table, conjunction, disjunction and based examples		Subdivision of intervals and based examples
25.08.2023	Examples based on Taylor's theorems and Test & Assignment		Conditional statement, biconditional statement, Tautologies and based examples		
26.08.2023	Application of Taylor's theorem and Expansion by differential equations		Logarithms, product formula, quotient formula and based examples		
28.08.2023		Solution of complete quadratic equations using method of completing the square, discriminant method with examples		Darboux intermediate value theorem for derivatives and examples	
29.08.2023		Equations reducible to quadratics and based examples		Introduction to Indeterminate forms	
30.08.2023	Raksha Bandhan				
31.08.2023	Introduction to Asymptotes, Vertical, Horizontal, Oblique Asymptotes with examples	Nature of roots of quadratic equation, relation between roots and coefficient of quadratic equation and based examples	Power formula, base changing formula, types of logarithms and based examples		Interpolation with unequal intervals : Newton's divided difference formula and based examples
01.09.2023	Asymptotes of Polar curves and based examples		Characteristic, Mantissa, table of logarithms, anti-logarithms and based examples		

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
02.09.2023	Position of the curve with respect to the asymptotes		Sequence, its types, Arithmetic Progression and based examples		
04.09.2023		Formulation and solution of word problems involving quadratic equations		Rules to solve indeterminate forms with examples	
05.09.2023		Binomial theorem and based examples		Rules to solve indeterminate forms with examples	
06.09.2023					
07.09.2023	Introduction to curvature, Centre of curvature and curvature of circle based examples	General term and middle term in a binomial expansion and based examples	Sum of n terms of A.P, examples		Langrenge's Interpolation formula and Hermite Formula and based examples
08.09.2023	Radius of curvature for polar equations based examples, Examples of Radius of curvature at origin		Geometric Progression, sum of n terms of G.P and based examples		
09.09.2023	Transformation of polar to pedal form and radius of curvature based examples, Centre, Circle and evolute of curvature and its examples		Sum of G.P upto infinity and based examples		
11.09.2023		Definition of function, its types and based examples		Limits and continuity of functions of two variables and examples	
12.09.2023		Limit, exponential and logarithmic limits and based examples		Limits and continuity of functions of two variables and examples	

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
13.09.2023				Partial differentiation with examples	Central difference interpolation formulae: Gauss forward and backward inetrpolation formula and based examples
14.09.2023	Introducation to singular points, Types of Singular points - node, cusp, conjugate point	Limit, exponential and logarithmic limits and based examples	Application of A,P and G.P to Business problems		Sterling and Bessel's Formula and based examples
15.09.2023	Examples of nature of double point at origina and other than origin		Definition of Matrix, order, its types and examples		
16.09.2023	Examples of nature of cusp of first or second species,single or double cusp, Concavity, convexity and point of inflexion of curve		Determinant of matrices of order 2 and 3 and properties of determinants and based examples		
18.09.2023		Left hand and right hand limit, continuity of function at a point and based examples		Total differentials, composite functions and implicit functions, examples	
19.09.2023		Left hand and right hand limit, continuity of function at a point and based examples		Change of variables and Homogeneous functions and examples	
20.09.2023				Euler's theorem on Homogeneous functions and based examples	Probability distribution, mean, variance and standard deviation of random variables with examples

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
21.09.2023	Introduction to curve tracing, Examples of tracing of curves in case of cartesian coordinates	Definition of Matrix, order, its types and examples	Properties of matrix(addition, negative, scalar multiplication) and examples		Bionomial distribution, mean, variance, standard deviation, recurrence formula and fitting of binomial distribution with examples
22.09.2023	Tracing of curves in paramteric equations and its examples, Tracing of polar curves and examples		Matrix multiplication and based examples		
23.09.2023	Shaheedi Diwas/Haryana War Heroes' Martyrdom Day				
25.09.2023		Determinant of matrices of order 2 and 3 and properties of determinants and based examples		Euler's theorem on Homogeneous functions and based examples	
26.09.2023		Determinant of matrices of order 2 and 3 and properties of determinants and based examples		Taylor's theorem for function of two variables and examples	
27.09.2023				Differentiability of real valued functions of two variables, theorems and examples	Poisson distribution, mean, variance, standard deviation, recurrence formula and fitting of binomial distribution with examples
28.09.2023	Test and Assignment and Tracing of polar curves and examples	Properties of matrix(addition, negative, scalar multiplication) and examples	Matrix multiplication and based examples + Test and Assignment		Normal distribution, its properties and examples + test and assignment
29.09.2023	Introduction to reduction formulae, Examples using different reduction formulae		Integral power of matrix, symmetric and skew-symmetric matrix and based examples		

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
30.09.2023	Introduction to rectification, Examples of length of arc in cartesian form		Adjoint and inverse of matrix and based examples		
02.10.2023	Mahatma Gandhi Jayanti				
03.10.2023		Properties of matrix(addition, negative, scalar multiplication) and examples		Schwarz's theorem, Young's theorem and based examples	
04.10.2023				Implicit function theorem and examples + Test and Assignment	Numerical differentiation using Newton's Forward, backward interpolation, sterling central difference and Newton's divided difference formula with examples
05.10.2023	Examples of length of arc in cartesian form	Properties of matrix(addition, negative, scalar multiplication) and examples	Adjoint and inverse of matrix and based examples		Eigen value and eigen vectors of matrix using Power method, Jacobi's method, Given's method with examples
06.10.2023	Examples of length of parametric forms, Examples of length of polar forms		Solution of system of linear equations and based examples		
07.10.2023	Examples of length of parametric forms, Examples of length of polar forms		Solution of system of linear equations using matrices and based examples		
09.10.2023		Matrix multiplication and based examples		Maxima, minima and saddle points of function of two variables and examples	

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
10.10.2023		Matrix multiplication and based examples + Test and Assignment		Maxima, minima and saddle points of function of two variables and examples	
11.10.2023				Lagrange's method of multiplier and examples	Eigen value and eigen vectors of matrix using House-holder method, QR method and Lanczo's method with examples
12.10.2023	Examples of length of parametric forms, Examples of length of polar forms	Matrix multiplication and based examples	Simple interest, compound interest and based examples		Numerical integration using Newton-cotes quadrature formula, Trapezoidal rule, Simpson's one third rule with examples
13.10.2023	Examples of intrinsic equation of curve, Introduction to Quadrature		Compound interest and based examples +test and assignment		
14.10.2023	Examples of intrinsic equation of curve, Introduction to Quadrature		Continuous compounding of interest, Problems on effective rate of interest, depreciation and population with examples		
16.10.2023		Matrix multiplication and based examples		Lagrange's method of multiplier and examples	
17.10.2023		Integral power of matrix, symmetric and skew-symmetric matrix and based examples		Curves: Tangents, principal normals, binormals	Numerical integration using Simpson's three eight rule, Gauss Quadrature formula and Chebyshev's quadrature formula with examples
18.10.2023				Serret-Frenet formula and based examples	Numerical solution of ODE using Euler's method, Modified Euler's Method with examples +test and assignment

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
19.10.2023	Examples of intrinsic equation of curve, Introduction to Quadrature	Integral power of matrix, symmetric and skew-symmetric matrix and based examples	Continuos compounding of interest, Problems on effective rate of interest, depriiation and population with examples		
20.10.2023	Examples of area of curve and line, Examples of area between two polar curves		Annuties, its types and examples based on different types		
21.10.2023	Examples of area of curve and line, Examples of area between two polar curves		Annuties, its types and examples based on different types		
23.10.2023		Adjoint and inverse of matrix and based examples		Serret-Frenet formula and based examples	
24.10.2023	Dussehra				
25.10.2023				Locus of the centre of curvatre and examples	Numerical solution of ODE using Taylor's series method, R-K Method of I,II, III, IV order with examples
26.10.2023	Introduction to volumes and surfaces of solids of revolution, Examples of volume of a solid of revolution	Adjoint and inverse of matrix and based examples	Annuties, its types and examples based on different types		
27.10.2023	Examples of volume of a solid of revolution		Solutions of practical problems to annutiess		
28.10.2023	Maharishi Valmiki Jayanti				
30.10.2023		Adjoint and inverse of matrix and based examples		Spherical curvature and examples	

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
31.10.2023		Solution of system of linear equations and based examples		Locus of centre of spherical curvature and examples	Numerical solution of ODE using Picard's method, Predictor-Corrector Method with examples
01.11.2023	Haryana Day				
02.11.2023	Examples of volume of parametric curves and polar curves, Examples of area of surface of resolution	Solution of system of linear equations and based examples	Solutions of practical problems to annutiess		
03.11.2023	Examples of volume of parametric curves and polar curves, Examples of area of surface of resolution		Solutions of practical problems to annutiess		
04.11.2023	Centroid and Pappus and Guldin's Theorem, its examples		Present value and amount of annuity when interest is compounded continuously and based examples		
06.11.2023		Solution of system of linear equations and based examples		Involutes, evolutes and examples, Bertrand curves	
07.11.2023		Solution of system of linear equations using matrices and based examples + Test and assignment		Test and Assignment and Surfaces : Tangent planes and examples	
08.11.2023				One parameter family of surfaces and examples , Envelops and examples	Numerical solution of ODE using Milne-Simpson's method, Adams-Bashforth Method with examples

Date	Class B.A/B.Sc I	Class BBA I	Class B.Com I	Class B.A/B.Sc II	Class B.A/B.Sc III
	Semester -I (4-6 days)	Semester I (1-2,4 days)	Semester I (4-6 days)	Semester III (Advanced Calculus)(1-3 days)	Semester V (Numerical Analysis) (3-4 days Theory)
09.11.2023	Centroid and Pappus and Guldin's Theorem, its examples	Solution of system of linear equations using matrices and based examples	Present value and amount of annuity when interest is compounded continuously and based examples		Revision of Complete Syllabus
10.11.2023 to 16.11.2023 Diwali Vacations					
17.11.2023	Introduction to Indeterminate forms, Rules to solve indeterminate forms with examples		Present value and amount of annuity when interest is compounded continuously and based examples		
18.11.2023	Rules to solve indeterminate forms with examples		Revision of Complete syllabus		
20.11.2023		Revision of Complete Syllabus		Revision of complete syllabus	
21.11.2023		Revision of Complete Syllabus		Revision of complete syllabus	
22.11.2023				Test and revision	Revision of Complete Syllabus
23.11.2023	Revision of Complete syllabus	Test and Revision	Revision of Complete syllabus		Test and Revision
24.11.2023	Test and Revision		Test and Revision		
25.11.2023	Examinations Onwards				

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2023-24 (04.08.2023 to 24.11.2023)

Name of teacher: Miss Shweta

Subject:- Mathematics

Date	Class:- Bsc/BA 2nd year	Class:- Bsc/BA 3rd year	Class.....
	Semester- 3rd (P.D.E)	Semester:- 5th(Real	Semester.....
04.08.2023	ch:-1 Introduction of partial differential equations	Introduction to course and basic definition	
05.08.2023	example of exercise	Reimann integral definition and theorem	
07.08.2023		Reimann integral theorems	
08.08.2023		Integrability continuous functions examples	
09.08.2023			
10.08.2023	Introduction of formation of pde and based examples and		
11.08.2023	Ch-2 introduction of first order linear pde and based	Properties of reimann integral	
12.08.2023	Solution of Lagrange's linear equations and based examples	Examples of Reimann integral	
14.08.2023		Fundamental theorem of integral calculus	
15.08.2023	Independence Day		
16.08.2023			
17.08.2023	ch-3 introduction of first order non linear pde and based		
18.08.2023	Charpit's method and based examples	Doubt of chapter -1	
19.08.2023	some standard form and based examples and jacobi's method	Mean value theorem of integral calculus	
21.08.2023		Introduction to improper integrals	
22.08.2023		Types of improper integral and examples	
23.08.2023			
24.08.2023	Ch-4 introduction of linear pde of second and higher order		
25.08.2023	Examples of 4.1	Doubts of improper integrals	
26.08.2023	Examples of 4.2	Comparison test of convergence of integrals	
28.08.2023		Abel's test and dirichlet test	
29.08.2023		Abel's test and dirichlet test examples	
30.08.2023	Raksha Bandhan		
31.08.2023	Problem based on ch-4+test		
01.09.2023	Ch-5 introduction of pde with variable coefficient reducible	Frullani's integral and based examples	
02.09.2023	Based examples	Doubts	
04.09.2023		Derivability of integral and examples	

Date	Class:- Bsc/BA 2nd year	Class:- Bsc/BA 3rd year	Class.....
	Semester- 3rd (P.D.E)	Semester:- 5th(Real	Semester.....
05.09.2023		Integrability of an integral of a function of a parameter	
06.09.2023	Janamashtmi		
07.09.2023	ch-6 introduction of canonical form of second order linear		
08.09.2023	reduction of 2nd order linear pde to canonical form	Definition and examples of metric space	
09.09.2023	examples based on reduction of hyperbolic equations to its	Examples of metric spaces	
11.09.2023		Doubts of metric space	
12.09.2023		Test and assignment	
13.09.2023			
14.09.2023	reduction of elliptic equation to the canonical form		
15.09.2023	Based examples	Open and closed sphere and examples	
16.09.2023	Based examples+test	neighbourhood, interior point, open set based examples	
18.09.2023		Adherent point, limit point, isolated point, derived set	
19.09.2023		closure of set, closed set examples	
20.09.2023			
21.09.2023	Ch-7 introduction of Monge's method		
22.09.2023	Based examples	Doubts	
23.09.2023	Shaheed Diwas/Haryana War Heroes' Martyrdom Day		
25.09.2023		Boundary points and subspaces of metric space	
26.09.2023		Equivalent metrics and examples	
27.09.2023			
28.09.2023	Based examples of 7.2		
29.09.2023	Problem based on ch-7	Test	
30.09.2023	test	Convergence of sequence in metric space	
02.10.2023	Mahatma Gandhi Jayanti		
03.10.2023		Examples of convergence of Metric space	
04.10.2023			
05.10.2023	ch-8 characteristics of 2nd order pde and Cauchy's		
06.10.2023	characteristics equations and characteristics curve	Cauchy sequence	
07.10.2023	Based examples	Completeness of metric spaces and some examples	
09.10.2023		Doubts	
10.10.2023		Contraction principles and examples	

Date	Class:- Bsc/BA 2nd year	Class:- Bsc/BA 3rd year	Class.....
	Semester- 3rd (P.D.E)	Semester:- 5th(Real	Semester.....
11.10.2023			
12.10.2023	Cauchy's problem+based examples		
13.10.2023	Remaining examples	Continuous function and examples	
14.10.2023	ch-9 method of sepration of variable-wave,heat and	Doubts	
16.10.2023		Test	
17.10.2023		Uniform continous function and examples	
18.10.2023			
19.10.2023	Method of separation of variable		
20.10.2023	1D wave equation-solution by method of separation of	Compact set,compactness of metric space and examples	
21.10.2023	Based examples	Sequentially compactness and bolzano weistrass property	
23.10.2023		Doubts	
24.10.2023	Dussehra		
25.10.2023			
26.10.2023	solution of 1D Wave equation-solution satisfving the given		
27.10.2023	Based examples	Test	
28.10.2023	Maharishi Valmiki Jayanti		
30.10.2023		Total boundedness, finite intersection property	
31.10.2023		Continuity in relation with compactness and	
01.11.2023	Haryana Day		
02.11.2023	Test of ch-8		
03.11.2023	Problem related to 9.1	Doubts	
04.11.2023	Solution of two dimentional heat equations	Test	
06.11.2023		Revision of unit I	
07.11.2023		Test of Unit 1	
08.11.2023			
09.11.2023	Examples based on 9.2		
10.11.2023 to 16.11.2023		Diwali Vacations	
17.11.2023	Based examples	Revision of Unit 2	
18.11.2023	Solution of two dimentional laplace equations	Test of Unit 2	
20.11.2023		Revision of unit 3 and 4	
21.11.2023		Test of both units 3 and 4	

Date	Class:- Bsc/BA 2nd year	Class:- Bsc/BA 3rd year	Class.....
	Semester- 3rd (P.D.E)	Semester:- 5th(Real	Semester.....
22.11.2023			
23.11.2023	solution of laplace equations satisfying given initial and		
24.11.2023	Doubts	Revision of whole syllabus	
25.11.2023	Examinations Onwards		