Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher:-Dr. Upasana Ahuja

Subject :-MATHS

Week	Date	Class :-B.A, Subject:-Groups and Ring	Class:-B.A, Subject:-algebra	Class :-B.A,Subject:-advance calculus
		Semester:-5th	**Semester :-1st**	**Semester:-3rd**
	08.10.2021	**Orientation Course**		
	09.10.2021	**Orientation Course**		
	11.10.2021	ch-1 introduction,binary operation,some properties of binary operation,algebraic	Introduction to new course	Introduction of syllabus
	12.10.2021	order of group,finite and infinite groups,	Introduction to matrices,types of matrices	Preliminary
	13.10.2021	based examples	Types of matrices-symmetric,skew-symmetric	ch-1 continuous and discontinuous functions
	14.10.2021	integral power of element,general properties of group	Types of matrices with properties and examples	Theorem based on continuous functions
	15.10.2021	**Dussehra**		
	16.10.2021	based examples	Types of matrices with properties and examples	Examples on continuous functions
	18.10.2021	order of element of group,related theorems	Rank of matrices using determinat method	Examples on continuous functions
	19.10.2021	based examples	Rank of matrices using determinat method	Uniform continuity and based theorems
	20.10.2021	**Maharishi Balmiki Jayanti**		
	21.10.2021	complexes and subgroup of a group	Elementry row and column operations	Examples on uniform continuity
	22.10.2021	related theorems	Row equivalent,collumn equivalent and equivalent	Examples on uniform continuity
	23.10.2021	product and interection of subgroups,related theorem	Row and column echelon matrices,row and column	Doubts of ch-1
	25.10.2021	based examples	Row and column echelon matrices,row and column	ch-2 Derivability of a function and based examples
	26.10.2021	based examples	Normal form of a matrix and elementry matrix	Darboux theorem and Rolle's theorem
	27.10.2021	cyclic group,some theorems on cyclic group	Examples to find rank of matrix by reducing to normal	Examples on Rolle's theorem
	28.10.2021	based examples	Examples to find rank of matrix by reducing to normal	Langrange's mean value theorem and based examples

Week	Date	Class :-B.A, Subject:- Groups and Ring	Class:-B.A, Subject:- algebra	Class :-B.A,Subject:- advance calculus
		Semester:-5th	**Semester :-1st**	**Semester:-3rd**
	29.10.2021	problem related to ch-1	Inverse of a matrix using elementry opreations	cauchy mean value theorem and based examples
	30.10.2021	test of ch-1	Linear depedence and independence	Taylor's theorem and based examples
	31.10.2021 to 07.11.2021	**Diwali Vacations**		
	08.11.2021	ch-2 cosets,some theorem on cosets	Linear depedence and independence	Test of ch-1
	09.11.2021	based examples	Characterstic polynomial, equation,eigen values	ch-3 Introduction of indeterminant forms
	10.11.2021	index of subgroups,relation of congruence modulo,lagrange theorem	Characterstic polynomial, equation,eigen values	Examples of 3.1
	11.11.2021	normsl subgroups,simple group,some theorem	Cayley-hamilton theorems and its use in findig inverse	Based examples
	12.11.2021	quotient group,some theorem and examples	Cayley-hamilton theorems and its use in findig inverse	Examples of 3.2
	13.11.2021	queires related to ch-2	Monic polynomial, minimal polynomial and equation	Revision
	15.11.2021	ch-3 introduction,homomorphism and isomorphism of groups	Monic polynomial, minimal polynomial and equation	Examples of 3.3
	16.11.2021	some theorems	Applications of matrices to a system of linear	Based examples
	17.11.2021	based examples	Applications of matrices to a system of linear	Doubts of ch-3
	18.11.2021	fundamental theorem on homomorphism of group,second,third theorem of isomorphism	Sessional	Test of ch-3
	19.11.2021	**Guru Nanak Dev Jayanti**		
	20.11.2021	automorphism of group and examples	Applications of matrices to a system of linear	ch-4 Introduction of limit and continuity of functions
	22.11.2021	**NAAC TEAM VISIT**		
	23.11.2021	**NAAC TEAM VISIT**		
	24.11.2021	group of automorphism of group,inner automorphism	Theorems on consistecy of a system of liner	Based theorems
	25.11.2021	some theorems	Theorems on consistecy of a system of liner	Based examples

Week	Date	Class :-B.A, Subject:-Groups and Ring	Class:-B.A, Subject:-algebra	Class :-B.A,Subject:-advance calculus
		Semester:-5th	Semester :-1st	Semester:-3rd
	26.11.2021	based examples	Theorems on consistecy of a system of liner	Algebra of continuous functions
	27.11.2021	center of a group,theorem	Assignment	Based examples
	29.11.2021	example related to center and characteristics	Unitary and orthogonal matrices with examples	Doubts of ch-4
	30.11.2021	normalizer,some theorem	Unitary and orthogonal matrices with examples	ch-5 Introduction of partial differentiation
	01.12.2021	commutator and some theorems	Bilinear and quardratic forms with examples	Based examples
	02.12.2021	problem related to ch-3	Bilinear and quardratic forms with examples	Based examples
	03.12.2021	test of ch-3	Synthetic division and examples	Homogeneous functions and based theorems
	04.12.2021	ch-4 permutation groups,product of permutation,examples	Relation between the roots and coefficient of general	Based examples
	06.12.2021	identify permutation,inverse permutation,symmetric group	Relation between the roots and coefficient of general	Based examples
	07.12.2021	cyclic permutation,transposition,alternating group,cayley theorem	Relation between the roots and coefficient of general	Total differentiation and based theorems
	08.12.2021	problem related to ch-4	Solution of polynomial equation having conditions	Based examples
	09.12.2021	test of ch-4	Assignment	Based examples
	10.12.2021	ch-5 introduction ring,types of ring	Common roots and multipal roots examples	Implicit functions and based examples
	11.12.2021	examples of ring	Common roots and multipal roots examples	Taylor's theorem and based examples
	13.12.2021	integral domain,division ring,field	Common roots and multipal roots examples	Doubts of ch-5
	14.12.2021	some theorems	Transformation of equation with different	Assignment
	15.12.2021	based examples	Transformation of equation with different	Test of ch-2
	16.12.2021	subring,some theorems on subring	Transformation of equation with different	ch-6 Introduction of chapter
	17.12.2021	center of ring,examples	Transformation of equation with different	Examples of 6.1
	18.12.2021	characteristic of ring,some theorems	Transformation of equation with different	Examples of 6.1
	20.12.2021	problem related to ch-5	Solutions of cubic and biquadratic equation	Young's theorem and Schwartz's theorem

Week	Date	Class :-B.A, Subject:-Groups and Ring	Class:-B.A, Subject:-algebra	Class :-B.A,Subject:-advance calculus
		Semester:-5th	**Semester :-1st**	**Semester:-3rd**
	21.12.2021	assignment	Cardan's method of solving a cubic equation, examples	Based examples
	22.12.2021	ch-6 introduction,some definition of ideals,sum and product of ideals	Cardan's method of solving a cubic equation, examples	Doubts of ch-6
	23.12.2021	related theorems	Cardan's method of solving a cubic equation, examples	Test of ch-6
	24.12.2021	sessional	Cardan's method of solving a cubic equation, examples	
	25.12.2021	**Christmas**		
	27.12.2021	simple ring,theorems,prime ideal	Test	ch-7 Introduction of maximum and minimum
	28.12.2021	principle ideal domain,theorem	Test	Based theorems
	29.12.2021	maximal ideal,prime ideal,co maximal ideal	Test	Based examples
	30.12.2021	based examples	Cardan's method of solving a cubic equation, examples	Remaining examples
	31.12.2021	quotient ring	Cardan's method of solving a cubic equation, examples	Langrange's method and based examples
	01.01.2022	based theorems	Sessional	Doubts oh ch-7
	03.01.2022	problem related to ch-6	Descarte's solution of the biquadratic, examples	ch-8 Introduction of curves in space
	04.01.2022	test of ch-6	Descarte's solution of the biquadratic, examples	Examples of 8.1
	05.01.2022	ch-7 ring homomorphism,based theorms	Descarte's solution of the biquadratic, examples	Equation of tangent line and based examples
	06.01.2022	kernel of ring homomorphism,theorem,based examples	Descarte's solution of the biquadratic, examples	Osculating plane and based examples
	07.01.2022	fundamental theorem on homomorphism of ring,second,third theorem of isomorphism	Test	Fundamental unit vectors and based examples
	08.01.2022	based examples	Descarte's solution of the biquadratic, examples	Remaining examples
	10.01.2022	embedded ring,field of quotient of integral domain	Test	doubts of ch-8

Week	Date	Class :-B.A, Subject:-Groups and Ring	Class:-B.A, Subject:-algebra	Class :-B.A,Subject:-advance calculus
		Semester:-5th	**Semester :-1st**	**Semester:-3rd**
	11.01.2022	based examples	Descarte's solution of the biquadratic, examples	ch-9 Introduction of curcle of curvature and spherical curvature
	12.01.2022	problem related to ch-7	Test	Properties of locus of the centre of curvature
	13.01.2022	ch-8 introduction,divisibility in commutative ring,theorems	Test	Properties of locus of the centre of curvature
	14.01.2022	prime element,irreducible element,g.c.d,l.c.m,theorems	Test	Based examples
	15.01.2022	euclidean rings,examples	Ferrari method of solving a biquadratic, examples	Test of ch-8
	17.01.2022	principle ideal domain,theorem	Ferrari method of solving a biquadratic, examples	ch-10 Introduction of involutes and evolutes
	18.01.2022	based theorems and examples	Ferrari method of solving a biquadratic, examples	Curvature and torsion of involute
	19.01.2022	problem related to ch-8	Ferrari method of solving a biquadratic, examples	Derivations of torsion,evolutes
	20.01.2022	test of ch-8	Sessional	Examples of curvature,torsion,involutean d evolutes
	21.01.2022	ch-9 polynomial ring,theorems	Ferrari method of solving a biquadratic, examples	ch-11 Introduction of concept of surface and envelopes
	22.01.2022	based examples	Test	Class of surface,singularity of a surface
	24.01.2022	based examples	Test	Parametric curves ,tangent plane and normal
	25.01.2022	problem related to ch-9	Descarte's rule of signs	Cartesian form of equations of the tangent plane
	26.01.2022	**Republic Day**		
	27.01.2022	problem related to ch-9	Test	Based examples
	28.01.2022	test of ch-9	Test	Family of surfaces,characteristic curve of family of surfaces
	29.01.2022	problem related to unit-1	Descarte's rule of signs	Test
	31.01.2022	problem related to unit-1	Continuation or permanence of signs	Envelope and based upon theorem
	01.02.2022	test of unit-1	Complex roots	Edge of regression and based upon theorem
	02.02.2022	problem related to unit-2	Revision	Examples of regression
	03.02.2022	problem related to unit-2	Revision	Examples of regression

Week	Date	Class :-B.A, Subject:- Groups and Ring	Class:-B.A, Subject:- algebra	Class :-B.A,Subject:- advance calculus
		Semester:-5th	**Semester :-1st**	**Semester:-3rd**
	04.02.2022	test of unit-2	Revision	Doubts
	05.02.2022	**Basant Panchami**		
	07.02.2022	problem related to unit-3	problem related to unit-3	Revision of unit 1
	08.02.2022	problem related to unit-3	problem related to unit-3	Revision of unit 1
	09.02.2022	test of unit-3	test of unit-3	Test of unit 1
	10.02.2022	problem related to unit-4	problem related to unit-4	Revision of unit 2
	11.02.2022	problem related to unit-4	problem related to unit-4	Revision of unit 2
	12.02.2022	test of unit-4	test of unit-4	Test of unit 2
	14.02.2022	revision of unit-1 and unit-2	revision of unit-1 and unit-2	Revision of unit 3
	15.02.2022	test of unit-1 and unit-2	test of unit-1 and unit-2	Revision of unit 3
	16.02.2022	**Guru Ravidas Jayanti**		
	17.02.2022	revision of unit-3 and unit-4	revision of unit-3 and unit-4	Test of unit 3
	18.02.2022	test of unit-3 and unit-4	test of unit-3 and unit-4	Revision of unit 4
	19.02.2022	revision of full syllabus	revision of full syllabus	Revision of unit 4
	21.02.2022	revision of full syllabus	revision of full syllabus	Testof unit 4
	22.02.2022	full test	full test	Test of complete syllabus t

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Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher:-Dr. Upasana Ahuja

Subject :-MATHS

Week	Date	Class:-B.Com(Gen.) Subject:-business mathematics	
		Semester:-1st	
	08.10.2021	**Orientation Course**	
	09.10.2021	**Orientation Course**	
	11.10.2021	**Bridge Course**	
	12.10.2021	**Bridge Course**	
	13.10.2021	**Introduction to matrices**	
	14.10.2021	**Defination of matrices and its types**	
	15.10.2021	**Dussehra**	
	16.10.2021	Algebra of matrices	
	18.10.2021	Examples of addition,subtraction,scaler multiplication of matrices	
	19.10.2021	Examples of addition,subtraction,scaler multiplication of matrices	
	20.10.2021	**Maharishi Balmiki Jayanti**	
	21.10.2021	Examples of matrix multiplication	
	22.10.2021	Examples of matrix multiplication	
	23.10.2021	Problems related to chapter	
	25.10.2021	Properties of determinant	
	26.10.2021	Calculation of values of determinants upto third order	
	27.10.2021	Examples of calculation of values of determinants upto third order	
	28.10.2021	Examples of calculation of values of determinants upto third order	
	29.10.2021	adjoint of matrix	
	30.10.2021	Examples of adjoint of a matrix	
	31.10.2021 to 07.11.2021	**Diwali Vacations**	
	08.11.2021	Examples of adjoint of a matrix	
	09.11.2021	Elementary row or column operations	
	10.11.2021	Elementary row or column operations	
	11.11.2021	Examples of elementary row or column operations	
	12.11.2021	Examples of elementary row or column operations	
	13.11.2021	Test of adjoint of matrix	
	15.11.2021	Finding inverse of matrix through adjoint	
	16.11.2021	Examples of finding inverse of matrix through adjoint	
	17.11.2021	Examples of finding inverse of matrix through adjoint	
	18.11.2021	Finding inverse of matrix through elementary row and column operations	
	19.11.2021	**Guru Nanak Dev Jayanti**	
	20.11.2021	ch-4	
	22.11.2021	**NAAC TEAM VISIT**	
	23.11.2021	**NAAC TEAM VISIT**	
	24.11.2021	**Finding inverse of matrix through elementary row and column operations**	
	25.11.2021	**Finding inverse of matrix through elementary row and column operations**	
	26.11.2021	**Doubts**	
	27.11.2021	**Test and assignment**	

Week	Date	Class:-B.Com(Gen.) Subject:-business mathematics	
		Semester:-1st	
	29.11.2021	**Solutions of system of linear equations having unique solutions and involving not more than three variables**	
	30.11.2021	**Examples of solutions of system of linear equations having unique solutions and involving not more than three variables**	
	01.12.2021	**Examples of solution of system of linear equations having unique solutions and involving not more than three variables**	
	02.12.2021	**Examples of solutions of system of linear equations having unique solutions and involving not more than three variables**	
	03.12.2021	**Doubts of chapter**	
	04.12.2021	**introduction to logarithms**	
	06.12.2021	**different rules,properties of logarithms**	
	07.12.2021	**Examples of logarithms**	
	08.12.2021	**Examples of logarithms**	
	09.12.2021	**Characterstics , Mantissa based examples**	
	10.12.2021	**Characterstics , Mantissa based examples**	
	11.12.2021	**Finding Logarithms and antilogarithms using log and antilog tables**	
	13.12.2021	**Finding Logarithms and antilogarithms using log and antilog tables**	
	14.12.2021	**Examples using log and antilog tables**	
	15.12.2021	**Examples using log and antilog tables**	
	16.12.2021	**Doubts of chapter**	
	17.12.2021	**Test of logarithms**	
	18.12.2021	**Introduction to compound interest**	
	20.12.2021	**Examples of simple interest**	
	21.12.2021	**Examples of simple interest**	
	22.12.2021	**Different between simple and compound interest**	
	23.12.2021	**Examples of compound interest without using its formulas**	
	24.12.2021	**based examples**	
	25.12.2021	**Christmas**	
	27.12.2021	**Examples of compound interest without using its formulas**	
	28.12.2021	**Examples of compound interest with formulas**	
	29.12.2021	**Examples of compound interest with formulas**	
	30.12.2021	**Examples of compound interest when time is given in fractio**	
	31.12.2021	**Examples of compound interest when time is given in fractio**	
	01.01.2022	**Examples of compound interest when rate of interest is different in different years**	
	03.01.2022	**Examples of compound interest when rate of interest is different in different years**	
	04.01.2022	**Examples of compounded continuously**	
	05.01.2022	**Examples of compounded continuously**	
	06.01.2022	**Examples of compounded continuously**	
	07.01.2022	**Effective and nominal rate of interest based examples**	
	08.01.2022	**Effective and nominal rate of interest based examples**	
	10.01.2022	**Problems of depriciation & population**	
	11.01.2022	**Problems of depriciation & population**	
	12.01.2022	**Introduction to annuity and its different types**	

Week	Date	Class:-B.Com(Gen.) Subject:-business mathematics	
		Semester:-1st	
	13.01.2022	**Annuity immediate and based examples**	
	14.01.2022	**Annuity immediate and based examples**	
	15.01.2022	**Examples of present value of annuity in case of annuity immediate and annuity deferred**	
	17.01.2022	**Examples of present value of annuity in case of annuity immediate and annuity deferred**	
	18.01.2022	**Solution of practical problems related to annuities based examples**	
	19.01.2022	**Solution of practical problems related to annuities based exam**	
	20.01.2022	**Present value and amount of annuity when the interest is compounded continuously**	
	21.01.2022	**Present value and amount of annuity when the interest is compounded continuously**	
	22.01.2022	**Doubts related to annuities**	
	24.01.2022	**Arithmetic Progression**	
	25.01.2022	**Examples of Arithmetic progression**	
	26.01.2022	**Republic Day**	
	27.01.2022	**Test**	
	28.01.2022	**Geometric Progression**	
	29.01.2022	**Examples of Geometric progression**	
	31.01.2022	**Introduction to differentiability**	
	01.02.2022	**Simple derivatives of different functions**	
	02.02.2022	**Examples of derivatives of different functions**	
	03.02.2022	**Examples of derivatives of different functions**	
	04.02.2022	**Test**	
	05.02.2022	**Basant Panchami**	
	07.02.2022	**Rules of differentiation - Simple standard Forms**	
	08.02.2022	**Examples of differentiation**	
	09.02.2022	**Maxima and minima of functions of one variable**	
	10.02.2022	**Examples of Maxima and minima of functions of one variable relating to cost**	
	11.02.2022	**Examples of Maxima and minima of functions of one variable relating to cost**	
	12.02.2022	**Examples of Maxima and minima of functions of one variable relating to cost**	
	14.02.2022	**Test of ch - 6**	
	15.02.2022	**Problem related to ch - 7**	
	16.02.2022	**Guru Ravidas Jayanti**	
	17.02.2022	**Test of ch - 7**	
	18.02.2022	**Revision**	
	19.02.2022	**Revision**	
	21.02.2022	**Problems related to complete syllabus**	
	22.02.2022	**Test of complete syllabus**	

Dayanand Mahila Mahavidyalaya, Kurukshetra				
Lesson Plan (Odd Semester)				
Session 2021-22 (08.10.2021 to 22.02.2022)				
Name of Teacher…Ms. Garima……				
Week	**Date**	**Class …B.Com 1{SFS}……**	**Class …B.Sc 1 {N.M}……**	**Class …B.Sc 2 {N.M +C.S}……**
		Semester …1{Business Mathematics}……	**Semester …1 (Calculus) ……**	**Semester ...2 (Advanced Calculus)**
	08.10.2021	**Orientation Course**		
	09.10.2021	**Orientation Course**		
	11.10.2021	**Bridge Course**	Bridge Course	Introduction of syllabus
	12.10.2021	**Bridge Course**	Bridge Course	Preliminary
	13.10.2021	**Introduction to matrices**	Derivative of a function	ch-1 continuous and discontinuous functions
	14.10.2021	**Defination of matrices and its types**	Sum standard results of integration	Theorem based on continuous functions
	15.10.2021	**Dussehra**		
	16.10.2021	Algebra of matrices	Limit of a function & left & right hand limits	Examples on continuous functions
	18.10.2021	Examples of addition,subtraction,scaler multiplication of matrices	Examples on limits	Examples on continuous functions
	19.10.2021	Examples of addition,subtraction,scaler multiplication of matrices	Examples on limits	Uniform continuity and based theorems
	20.10.2021	**Maharishi Balmiki Jayanti**		
	21.10.2021	Examples of matrix multiplication	Continuous and discontinuous functions	Examples on uniform continuity
	22.10.2021	Examples of matrix multiplication	Examples of continuity	Examples on uniform continuity
	23.10.2021	Problems related to chapter	Examples of continuity	Doubts of ch-1
	25.10.2021	Properties of determinant	Classification of discontinuities	ch-2 Derivability of a function and based examples
	26.10.2021	Calculation of values of determinants upto third order	Doubts	Darboux theorem and Rolle's theorem
	27.10.2021	Examples of calculation of values of determinants upto third order	Indroduction of successive differentiation	Examples on Rolle's theorem
	28.10.2021	Examples of calculation of values of determinants upto third order	Some results of nth derivatives	Langrange's mean value theorem and based examples

	29.10.2021	adjoint of matrix	Examples of nth derivatives	cauchy mean value theorem and based examples
	30.10.2021	Examples of adjoint of a matrix	Examples of nth derivatives	Taylor's theorem and based examples
	31.10.2021 to 07.11.2021	**Diwali Vacations**		
	08.11.2021	Examples of adjoint of a matrix	Leibnitz's Theorem	Test of ch-1
	09.11.2021	Elementary row or column operations	Leibnitz' s Theorem and based examples	ch-3 Introduction of indeterminant forms
	10.11.2021	Elementary row or column operations	Leibnitz 's Theorem and based examples	Examples of 3.1
	11.11.2021	Examples of elementary row or column operations	Doubts of successive differentiation	Based examples
	12.11.2021	Examples of elementary row or column operations	Tests	Examples of 3.2
	13.11.2021	Test of adjoint of matrix	Introduction of differentiable functions	Revision
	15.11.2021	Finding inverse of matrix through adjoint	Taylor's Theorem with Lagrange form of remainder after " n"	Examples of 3.3
	16.11.2021	Examples of finding inverse of matrix through adjoint	Examples based on taylor' s theorem	Based examples
	17.11.2021	Examples of finding inverse of matrix through adjoint	Applications of taylor's theorem	Doubts of ch-3
	18.11.2021	Finding inverse of matrix through elementary row and column operations	Expansion by Differential equations	Test of ch-3
	19.11.2021	**Guru Nanak Dev Jayanti**		
	20.11.2021	ch-4	Introduction to Asymptotes	ch-4 Introduction of limit and continuity of functions
	22.11.2021	**NAAC TEAM VISIT**		
	23.11.2021	**NAAC TEAM VISIT**		
	24.11.2021	Finding inverse of matrix through elementary row and column operations	Type of asymptotes & examples	Based theorems
	25.11.2021	Finding inverse of matrix through elementary row and column operations	Oblique asymptotes & examples	Based examples
	26.11.2021	Doubts	Oblique asymptotes and examples	Algebra of continuous functions
	27.11.2021	Test and assignment	Test	Based examples

	29.11.2021	Solutions of system of linear equations having unique solutions and involving not more than three variables	Example of polar curves	Doubts of ch-4
	30.11.2021	Examples of solutions of system of linear equations having unique solutions and involving not more than three variables	Position of the curve with respect to the asymptotes	ch-5 Introduction of partial differentiation
	01.12.2021	Examples of solution of system of linear equations having unique solutions and involving not more than three variables	Position of the curve with respect to the asymptotes	Based examples
	02.12.2021	Examples of solutions of system of linear equations having unique solutions and involving not more than three variables	Doubts of asymptotes	Based examples
	03.12.2021	Doubts of chapter	Test	Homogeneous functions and based theorems
	04.12.2021	introduction to logarithms	Assignment	Based examples
	06.12.2021	different rules,properties of logarithms	Introduction to Curvature	Based examples
	07.12.2021	Examples of logarithms	Centre of curvature & circle of curvature based examples	Total differentiation and based theorems
	08.12.2021	Examples of logarithms	Radius of curvature for polar equations based examples	Based examples
	09.12.2021	Characterstics , Mantissa based examples	Radius of curvature for polar equations based examples	Based examples
	10.12.2021	Characterstics , Mantissa based examples	Transformation of polar to pedal form	Implicit functions and based examples
	11.12.2021	Finding Logarithms and antilogarithms using log and antilog tables	Radius of curvature at the origin	Taylor's theorem and based examples
	13.12.2021	Finding Logarithms and antilogarithms using log and antilog tables	Examples of radius of curvature at the origin	Doubts of ch-5
	14.12.2021	Examples using log and antilog tables	Centre, circle & evolute of curvature and its examples	Assignment
	16.12.2021	Examples using log and antilog tables	Centre, circle & evolute of curvature and its examples	Test of ch-2

	17.12.2021	Doubts of chapter	Doubts related to curvature	ch-6 Introduction of chapter
	18.12.2021	Test of logarithms	Introduction to singular points	Examples of 6.1
	20.12.2021	Introduction to compound interest	Types of singular points - node ,cusp,conjugate point	Examples of 6.1
	21.12.2021	Examples of simple interest	Examples of nature of double point at origin and other than origin	Young's theorem and Schwartz's theorem
	22.12.2021	Examples of simple interest	Examples of nature of double point at origin and other than origin	Based examples
	23.12.2021	Different between simple and compound interest	Examples of nature of cusp of 1st or 2nd species,single or double cusp	Doubts of ch-6
	24.12.2021	Examples of compound interest without using its formulas	Concavity,convexity & point of inflexion of curve	Test of ch-6
	25.12.2021	**Christmas**		
	27.12.2021	Examples of compound interest without using its formulas	Concavity,convexity & point of inflexion of curve	ch-7 Introduction of maximum and minimum
	28.12.2021	Examples of compound interest with formulas	Test	Based theorems
	29.12.2021	Examples of compound interest with formulas	Introduction to curve tracing	Based examples
	30.12.2021	Examples of compound interest when time is given in fractio	Examples of tracing of curves in case of cartesian coordinates	Remaining examples
	31.12.2021	Examples of compound interest when time is given in fractio	Examples of tracing of curves in case of cartesian coordinates	Langrange's method and based examples
	01.01.2022	Examples of compound interest when rate of interest is different in different years	Tracing of curves in parametric equations and its examples	Doubts oh ch-7
	03.01.2022	Examples of compound interest when rate of interest is different in different years	Tracing of curves in parametric equations and its examples	ch-8 Introduction of curves in space
	04.01.2022	Examples of compounded continuously	Tracing of curves in parametric equations and its examples	Examples of 8.1
	05.01.2022	Examples of compounded continuously	Tracing of polar curves and examples	Equation of tangent line and based examples
	06.01.2022	Examples of compounded continuously	Tracing of polar curves and examples	Osculating plane and based examples

	07.01.2022	Effective and nominal rate of interest based examples	Tracing of polar curves and examples	Fundamental unit vectors and based examples
	08.01.2022	Effective and nominal rate of interest based examples	Introduction to reduction formulae	Remaining examples
	10.01.2022	Problems of depriciation & population	Examples using different reduction formulae	doubts of ch-8
	11.01.2022	Problems of depriciation & population	Examples using different reduction formulae	ch-9 Introduction of curcle of curvature and spherical curvature
	12.01.2022	Introduction to annuity and its different types	Examples using different reduction formulae	Properties of locus of the centre of curvature
	13.01.2022	Annuity immediate and based examples	Examples using different reduction formulae	Properties of locus of the centre of curvature
	14.01.2022	Annuity immediate and based examples	Examples using different reduction formulae	Based examples
	15.01.2022	Examples of present value of annuity in case of annuity immediate and annuity deferred	Doubts related to reduction formulae	Test of ch-8
	17.01.2022	Examples of present value of annuity in case of annuity immediate and annuity deferred	Test	ch-10 Introduction of involutes and evolutes
	18.01.2022	Solution of practical problems related to annuities based examples	Introduction to rectification	Curvature and torsion of involute
	19.01.2022	Solution of practical problems related to annuities based exam	Examples of length ofarc in cartesian form	Derivations of torsion,evolutes
	20.01.2022	Present value and amount of annuity when the interest is compounded continuously	Examples of length ofarc in cartesian form	Examples of curvature,torsion,involutean d evolutes
	21.01.2022	Present value and amount of annuity when the interest is compounded continuously	Examples of length of parametric forms	ch-11 Introduction of concept of surface and envelopes
	22.01.2022	Doubts related to annuities	Examples of length of parametric forms	Class of surface,singularity of a surface
	24.01.2022	Arithmetic Progression	Examples of length of polar forms	Parametric curves ,tangent plane and normal
	25.01.2022	Examples of Arithmetic progression	Examples of length of polar forms	Cartesian form of equations of the tangent plane
	26.01.2022	**Republic Day**		
	27.01.2022	Test	Examples of intrinsic equation of curve	Based examples

	28.01.2022	Geometric Progression	Introduction to quadrarure	Family of surfaces,characteristic curve of family of surfaces
	29.01.2022	Examples of Geometric progression	Examplesof area of curve and line	Test
	31.01.2022	Introduction to differentiability	Examples of area between two curves	Envelope and based upon theorem
	01.02.2022	Simple derivatives of different functions	Test	Edge of regression and based upon theorem
	02.02.2022	Examples of derivatives of different functions	Examples of area of polar curves	Examples of regression
	03.02.2022	Examples of derivatives of different functions	Examples of area between two polae curves	Examples of regression
	04.02.2022	Test	Introduction to volume and surfaces of solids of revolution	Doubts
	05.02.2022	**Basant Panchami**		
	07.02.2022	Rules of differentiation - Simple standard Forms	Examples of volume of a solid of revolution	Revision of unit 1
	08.02.2022	Examples of differentiation	Examples of volume of parametric curves and polar curves	Revision of unit 1
	09.02.2022	Maxima and minima of functions of one variable	Examples of volume of parametric curves and polar curves	Test of unit 1
	10.02.2022	Examples of Maxima and minima of functions of one variable relating to cost	Examples of area of surface of revolution	Revision of unit 2
	11.02.2022	Examples of Maxima and minima of functions of one variable relating to cost	Examples of area of surface of revolution	Revision of unit 2
	12.02.2022	Examples of Maxima and minima of functions of one variable relating to cost	Centroid and pappus and guldin's theorem,its examples	Test of unit 2
	14.02.2022	Test of ch - 6	Centroid and pappus and guldin's theorem,its examples	Revision of unit 3
	15.02.2022	Problem related to ch - 7	Doubts	Revision of unit 3
	16.02.2022	**Guru Ravidas Jayanti**		
	17.02.2022	Test of ch - 7	Revision	Test of unit 3
	18.02.2022	Revision	Revision	Revision of unit 4
	19.02.2022	Revision	Revision	Revision of unit 4
	21.02.2022	Problems related to complete syllabus	Problems related to complete syllabus	Testof unit 4
	22.02.2022	Test of complete syllabus	Test of complete syllabus	Test of complete syllabus t

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher:-Garima

Subject :-MATHS

Week	Date	Class :-, Subject:- Groups and Ring
		Semester:-5th
	08.10.2021	**Orientation Course**
	09.10.2021	**Orientation Course**
	11.10.2021	ch-1 introduction,binary operation,some properties of binary operation,algebraic
	12.10.2021	order of group,finite and infinite groups,
	13.10.2021	based examples
	14.10.2021	integral power of element,general properties of group
	15.10.2021	**Dussehra**
	16.10.2021	based examples
	18.10.2021	order of element of group,related theorems
	19.10.2021	based examples
	20.10.2021	**Maharishi Balmiki Jayanti**
	21.10.2021	complexes and subgroup of a group
	22.10.2021	related theorems
	23.10.2021	product and interection of subgroups,related theorem
	25.10.2021	based examples
	26.10.2021	based examples
	27.10.2021	cyclic group,some theorems on cyclic group
	28.10.2021	based examples
	29.10.2021	problem related to ch-1
	30.10.2021	test of ch-1
	31.10.2021 to 07.11.2021	**Diwali Vacations**
	08.11.2021	ch-2 cosets,some theorem on cosets
	09.11.2021	based examples
	10.11.2021	index of subgroups,relation of congruence modulo,lagrange theorem
	11.11.2021	normsl subgroups,simple group,some theorem

Week	Date	Class :-, Subject:- Groups and Ring
		Semester:-5th
	12.11.2021	quotient group,some theorem and examples
	13.11.2021	queires related to ch-2
	15.11.2021	ch-3 introduction,homomorphism and isomorphism of groups
	16.11.2021	some theorems
	17.11.2021	based examples
	18.11.2021	fundamental theorem on homomorphism of group,second,third theorem of isomorphism
	19.11.2021	**Guru Nanak Dev Jayanti**
	20.11.2021	automorphism of group and examples
	22.11.2021	**NAAC TEAM VISIT**
	23.11.2021	**NAAC TEAM VISIT**
	24.11.2021	group of automorphism of group,inner automorphism
	25.11.2021	some theorems
	26.11.2021	based examples
	27.11.2021	center of a group,theorem
	29.11.2021	example related to center and characteristics
	30.11.2021	normalizer,some theorem
	01.12.2021	commutator and some theorems
	02.12.2021	problem related to ch-3
	03.12.2021	test of ch-3
	04.12.2021	ch-4 permutation groups,product of permutation,examples
	06.12.2021	identify permutation,inverse permutation,symmetric group
	07.12.2021	cyclic permutation,transposition,alternating group,cayley theorem
	08.12.2021	problem related to ch-4
	09.12.2021	test of ch-4
	10.12.2021	ch-5 introduction ring,types of ring
	11.12.2021	examples of ring
	13.12.2021	integral domain,division ring,field
	14.12.2021	some theorems
	15.12.2021	based examples
	16.12.2021	subring,some theorems on subring
	17.12.2021	center of ring,examples

Week	Date	Class :-, Subject:- Groups and Ring
		Semester:-5th
	18.12.2021	characteristic of ring,some theorems
	20.12.2021	problem related to ch-5
	21.12.2021	assignment
	22.12.2021	ch-6 introduction,some definition of ideals,sum and product of ideals
	23.12.2021	related theorems
	24.12.2021	sessional
	25.12.2021	**Christmas**
	27.12.2021	simple ring,theorems,prime ideal
	28.12.2021	principle ideal domain,theorem
	29.12.2021	maximal ideal,prime ideal,co maximal ideal
	30.12.2021	based examples
	31.12.2021	quotient ring
	01.01.2022	based theorems
	03.01.2022	problem related to ch-6
	04.01.2022	test of ch-6
	05.01.2022	ch-7 ring homomorphism,based theorms
	06.01.2022	kernel of ring homomorphism,theorem,based examples
	07.01.2022	fundamental theorem on homomorphism of ring,second,third theorem of isomorphism
	08.01.2022	based examples
	10.01.2022	embedded ring,field of quotient of integral domain
	11.01.2022	based examples
	12.01.2022	problem related to ch-7
	13.01.2022	ch-8 introduction,divisibility in commutative ring,theorems
	14.01.2022	prime element,irreducible element,g.c.d,l.c.m,theorems
	15.01.2022	euclidean rings,examples
	17.01.2022	principle ideal domain,theorem
	18.01.2022	based theorems and examples
	19.01.2022	problem related to ch-8
	20.01.2022	test of ch-8
	21.01.2022	ch-9 polynomial ring,theorems
	22.01.2022	based examples

Week	Date	Class :-, Subject:- Groups and Ring
		Semester:-5th
	24.01.2022	based examples
	25.01.2022	problem related to ch-9
	26.01.2022	**Republic Day**
	27.01.2022	problem related to ch-9
	28.01.2022	test of ch-9
	29.01.2022	problem related to unit-1
	31.01.2022	problem related to unit-1
	01.02.2022	test of unit-1
	02.02.2022	problem related to unit-2
	03.02.2022	problem related to unit-2
	04.02.2022	test of unit-2
	05.02.2022	**Basant Panchami**
	07.02.2022	problem related to unit-3
	08.02.2022	problem related to unit-3
	09.02.2022	test of unit-3
	10.02.2022	problem related to unit-4
	11.02.2022	problem related to unit-4
	12.02.2022	test of unit-4
	14.02.2022	revision of unit-1 and unit-2
	15.02.2022	test of unit-1 and unit-2
	16.02.2022	**Guru Ravidas Jayanti**
	17.02.2022	revision of unit-3 and unit-4
	18.02.2022	test of unit-3 and unit-4
	19.02.2022	revision of full syllabus
	21.02.2022	revision of full syllabus
	22.02.2022	full test

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher : Mrs. Prabhjot Kaur

Subject : Mathematics

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	Semester I	Semester III	Semester III	Semester V
	08.10.2021	**Orientation Course**				
	09.10.2021	**Orientation Course**				
	11.10.2021	Derivative of a function		Introduction to partial differential equation	Introduction of mechanics and other terms like forces, body.	Introduction to course and basic definitions
	12.10.2021	some standard results of integration		Order and degree of P.D.E	Parallelogram law of forces, magnitude and resultant of forces	Reimann Integral-definitions, theorems and examples
	13.10.2021	limit of a function and left and right hand limits		Linear and non-linear P.D.E	Examples of resultant of forces	Reimann Integral-definitions, theorems and examples
	14.10.2021	examples based on limits	Introduction to course and basic definitions	Formation of P.D.E by eliminating arbitrary constants		Reimann Integral-definitions, theorems and examples
	15.10.2021	**Dussehra**				
	16.10.2021	continuos and discontinuos functions	General equation of second degree and different types of equations based on some cases	Formation of P.D.E by eliminating arbitrary constants		Reimann Integral-definitions, theorems and examples
	18.10.2021	examples of continuity		Formation of P.D.E by eliminating arbitrary functions	Resolution of a given force in two given directions	Integrability of continuous functions, examples and some based theorems
	19.10.2021	classification of discontinuties		Formation of P.D.E by eliminating arbitrary functions	Examples of resolved parts of forces	Integrability of continuous functions, examples and some based theorems
	20.10.2021	**Maharishi Balmiki Jayanti**				

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	21.10.2021	Introduction of successive differentiation	**Examples of different second degree equations**	Classification of solution of P.D. E		Integrability of monotonic functions, examples and some based theorems
	22.10.2021	some results of nth derivatives	Tracing of conics and examples	Classification of solution of P.D. E		Integrability of monotonic functions, examples and some based theorems
	23.10.2021	examples of nth derivatives	Tracing of conics and examples	Solution of First order Linear P.D.E		Integrability of monotonic functions, examples and some based theorems
	25.10.2021	Leibnitz's theorem and based examples		Solution of Lagrange's Linear equation	Triangle law of forces, its converse and other forms	Properties of Riemann integral
	26.10.2021	Leibnitz's theorem and based examples		Examples of Lagrange's Linear equation	Examples of triangle law of forces	Properties of Riemann integral
	27.10.2021	introduction of differentiable functions		Examples of Lagrange's Linear equation	Lami's theorem and based examples	Fundamental theorem of integral calculus and based examples
	28.10.2021	taylor's theorem with Lagrange's form of remainder after 'n' terms	Tangent at any point to the conic, chord of contact with examples	Solution of First order non-linear P.D.E		Fundamental theorem of integral calculus and based examples
	29.10.2021	examples based on taylor's theorems	Tangent at any point to the conic, chord of contact with examples	Test and Assignment		Theorems on continuity and differentiability of integrable functions and examples
	30.10.2021	Application of taylor's theorem	Pole of line to conic with examples	Compatible System of P.D.E of order one		Theorems on continuity and differentiability of integrable functions and examples
	31.10.2021 to 07.11.2021	**Diwali Vacations**				

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	08.11.2021	Exapnsion by differential equations		Examples of compatible system of P.D.E of order one	Polygon law of forces and based examples	Theorems on continuity and differentiability of integrable functions and examples
	09.11.2021	introduction to Asymptotes		Examples of compatible system of P.D.E of order one	Conditions of equilibrium of concurrent forces and based examples	Theorems on continuity and differentiability of integrable functions and examples
	10.11.2021	types of asymptotes and examples		Charpit's Method	Equilibrium of bodies and based examples	Mean value theorems of Integral calculus and examples
	11.11.2021	Oblique asymptotes and examples	Director circle of conic with examples	Examples of Charpit's method		Mean value theorems of Integral calculus and examples
	12.11.2021	Oblique asymptotes and examples	Systems of conics with examples	Examples of Charpit's method		Introduction to improper integral and their convergence
	13.11.2021	Asymptotes of Polar curves	**Confocal conics, examples**	Examples of Charpit's method		Types of improper integral and their examples
	15.11.2021	examples of polar curves		Examples of Charpit's method	Iintroduction of like and unlike parallel forces and their resultant	Types of improper integral and their examples
	16.11.2021	position of the curve with respect to the asymptotes		Jacobi's method	Analogue of lami's theorem and resolved parts of parallel forces	Types of improper integral and their examples
	17.11.2021	position of the curve with respect to the asymptotes		Examples of Jacobi's method	Examples based on parallel forces	Comparison tests for convergence of integrals of different type and based examples
	18.11.2021	Test and Assignment	**Confocal conics, examples**	Examples of Jacobi's method		Comparison tests for convergence of integrals of different type and based examples

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	Semester I	Semester III	Semester III	Semester V
	19.11.2021	**Guru Nanak Dev Jayanti**				
	20.11.2021	Introduction to curvature	Polar equation of a conic with examples	Examples of Jacobi's method		Comparison tests for convergence of integrals of different type and based examples
	22.11.2021	**NAAC TEAM VISIT**				
	23.11.2021	**NAAC TEAM VISIT**				
	24.11.2021	Centre of curvature and curvature of circle based examples		Test	Moment of a force about a point and based examples	Comparison tests for convergence of integrals of different type and based examples
	25.11.2021	Radius of curvature for polar equations based examples	Polar equation of a conic with examples	Linear P.D.E of second and higher order		Comparison tests for convergence of integrals of different type and based examples
	26.11.2021	Radius of curvature for polar equations based examples	**Tangent and normal to the conic, examples**	Solution of homogeneous linear P.D.E with constant coefficients		Comparison tests for convergence of integrals of different type and based examples
	27.11.2021	Transformation of polar to pedal form and radius of curvature based examples	**Tangent and normal to the conic, examples**	Examples of homogeneous linear P.D.E with constant coefficients		Comparison tests for convergence of integrals of different type and based examples
	29.11.2021	Transformation of polar to pedal form and radius of curvature based examples		Examples of homogeneous linear P.D.E with constant coefficients	Varignon's theorem and its generalization and examples	Abel's test and Dirichlet's test and based examples
	30.11.2021	Examples of Radius of curvature at origin		Examples of homogeneous linear P.D.E with constant coefficients	Centre of parallel forces and based examples	Test
	01.12.2021	Examples of Radius of curvature at origin		Examples of homogeneous linear P.D.E with constant coefficients	Couples ,its moment , sign, equilibrium and resultant	Abel's test and Dirichlet's test and based examples

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	02.12.2021	Centre, Circle and evolute of curvature and its examples	Definition of sphere and examples	Solution of non homogeneous linear P.D.E with constant coefficients		Abel's test and Dirichlet's test and based examples
	03.12.2021	Centre, Circle and evolute of curvature and its examples	Plane section of sphere and examples	Examples of non homogeneous linear P.D.E with constant coefficients		Abel's test and Dirichlet's test and based examples
	04.12.2021	Introducation to singular points	Sphere through a given circle and based examples	Examples of non homogeneous linear P.D.E with constant coefficients		Frullani's Integral and baesd examples
	06.12.2021	Types of Singular points - node, cusp, conjugate point		Examples of non homogeneous linear P.D.E with constant coefficients	Test and Assignment	Tets and Assignment
	07.12.2021	Examples of nature of double point at origina and other than origin		Test and Assignment	Examples based on couples	Frullani's Integral and baesd examples
	08.12.2021	Examples of nature of double point at origina and other than origin		P.D.E with variable coefficients reducible to equations with constant coefficients	Resolution of forces into couples and based examples	Frullani's Integral and baesd examples
	09.12.2021	Examples of nature of cusp of first or second species,single or double cusp	Intersection of two spheres and examples	Examples of P.D.E with variable coefficients reducible to equations with constant coefficients		Frullani's Integral and baesd examples
	10.12.2021	Concavity, convexity and point of inflexion of curve	Intersection of two spheres and examples	Examples of P.D.E with variable coefficients reducible to equations with constant coefficients		Frullani's Integral and baesd examples
	11.12.2021	Concavity, convexity and point of inflexion of curve	Test	Examples of P.D.E with variable coefficients reducible to equations with constant coefficients		Integral as a function of a parameter

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	13.12.2021	Test		Examples of P.D.E with variable coefficients reducible to equations with constant coefficients	Equilibrium of three forces	Continuity of the Integral and examples
	14.12.2021	Introduction to curve tracing		Classification of second order linear P.D.E	Trigonometrical theorem and based examples	Continuity of the Integral and examples
	15.12.2021	Examples of tracing of curves in case of cartesian coordinates		Examples of Classification of second order linear P.D.E	Equilibrium of coplanar forces	Derivability of the integral and examples
	16.12.2021	Examples of tracing of curves in case of cartesian coordinates	Radical plane of two spheres, based examples	Examples of Classification of second order linear P.D.E		Derivability of the integral and examples
	17.12.2021	Tracing of curves in paramteric equations and its examples	Radical plane of two spheres, based examples	Reduction of second order linear P.D.E to cannonical form		Derivability of the integral and examples
	18.12.2021	Tracing of curves in paramteric equations and its examples	Co-axal system of spheres with examples	Reduction of hyperbolic equation to cannonical form		Derivability of the integral and examples
	20.12.2021	Tracing of curves in paramteric equations and its examples		Examples of Reduction of hyperbolic equation to cannonical form	Examples based on equilirium of coplanar forces	Integrability of an integral of a function of parameter and examples
	21.12.2021	Tracing of polar curves and examples		Examples of Reduction of hyperbolic equation to cannonical form	Introduction of friction and its kinds, stages	Integrability of an integral of a function of parameter and examples
	22.12.2021	Tracing of polar curves and examples		Examples of Reduction of hyperbolic equation to cannonical form	Laws of friction and based theorems,examples	Definition and examples of mertric spaces
	23.12.2021	Tracing of polar curves and examples	Co-axal system of spheres with examples	Reduction of parabolic equation to cannonical form		Examples of metric spaces
	24.12.2021	Introduction to reduction formulae	Test and Assignment	Examples of Reduction of parabolic equation to cannonical form		Examples of metric spaces
	25.12.2021	**Christmas**				

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	Semester I	Semester III	Semester III	Semester V
	27.12.2021	Examples using different reduction formulae		Examples of Reduction of parabolic equation to cannonical form	Problems on euilibrium of rods and ladders	Examples of metric spaces
	28.12.2021	Examples using different reduction formulae		Examples of Reduction of parabolic equation to cannonical form	Test and Assignment	Assignment
	29.12.2021	Examples using different reduction formulae		Reduction of elliptic equation to cannonical form	Introduction of centre of gravity and its forms	Open and closed sphere and examples
	30.12.2021	Examples using different reduction formulae	Definition of cone and examples	Examples of Reduction of elliptic equation to cannonical form		Neighbourhood, interior point, open set and based examples
	31.12.2021	Examples using different reduction formulae	Right circular cone with examples	Examples of Reduction of parabolic equation to cannonical form		Neighbourhood , interior point, open set and based examples
	01.01.2022	Examples using different reduction formulae	Right circular cone with examples	Test		Neighbourhood , interior point, open set and based examples
	03.01.2022	Introduction to rectification		Solution of linear hyperbolic equations	Examples based on centre of gravity	Adherent point, limit point, isolated point, derived set and examples
	04.01.2022	Examples of lenght of arc in cartesian form		Examples of solution of linear hyperbolic equations	Centre of gravity of a uniform rod,wire, tetrahedron and solid cone	Closure of a set, closed set and examples
	05.01.2022	Examples of lenght of arc in cartesian form		Examples of solution of linear hyperbolic equations	Examples based on different forms of gravity	Boundary points and subspaces of a metric space and examples
	06.01.2022	Examples of lengh of parametric forms	Enveloping cone and examples	Monge's method for P.D.E of second order		Equivalent metrices and examples
	07.01.2022	Examples of lengh of parametric forms	Reciprocal cone with examples	Examples of Monge's method for P.D.E of second order		Convergence of sequence in metric space and examples

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	08.01.2022	Examples of lengh of polar forms	**Right circular cylinder and examples**	Examples of Monge's method for P.D.E of second order		Convergence of sequence in metric space and examples
	10.01.2022	Examples of lengh of polar forms		Examples of Monge's method for P.D.E of second order	Introduction of work and virtual work	Baire's Category theorem and examples
	11.01.2022	Examples of intrinsic equation of curve		Characterstics of second order P.D.E and Cauchy's problem	Principle of virtual work and based examples	Contraction principle and examples
	12.01.2022	Examples of intrinsic equation of curve		Examples of characterstic equation and characterstic curve of second order P.D.E	Introduction of forces in three dimensions	Contraction principle and examples
	13.01.2022	Introduction to Quadrature	**Enveloping cylinder, examples**	Cauchy's Problem		Uniform continuous function and examples
	14.01.2022	**Test and Assignment**	Central conicoids, equation of tangent plane, examples	Examples of Cauchy's problem		Continuous function and examples
	15.01.2022	Examples of area of curve and line	Central conicoids, equation of tangent plane, examples	Methods of sepration of variables: Wave, Heat and Laplace equations		Continuous function and examples
	17.01.2022	Examples of area of curve and line		Solution of one dimensional wave equation	Parallelopiped of forces	Continuous function and examples
	18.01.2022	Examples of area between two polar curves		Solution of one dimensional wave equation	Axis and composition of couple	Continuous function and examples
	19.01.2022	Examples of area between two polar curves		Solution of two dimensional wave equation	Conditions of equilibrium of a rigid body	Continuous function and examples
	20.01.2022	Examples of area between two polar curves	Director Sphere and examples	Solution of two dimensional wave equation		Uniform continuous function and examples
	21.01.2022	Introduction to volumes and surfaces of solids of revolution	Normal to the conicoids and examples	Solution of two dimensional wave equation		Uniform continuous function and examples

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	22.01.2022	Examples of volume of a solid of revolution	Polar plane of a point and examples	Solution of one dimensional heat equation		Uniform continuous function and examples
	24.01.2022	Examples of volume of a solid of revolution		Solution of one dimensional heat equation	Poinsot's central axis and invariants	Uniform continuous function and examples
	25.01.2022	Examples of volume of a solid of revolution		Solution of one dimensional heat equation	Examples based on central axis	Uniform continuous function and examples
	26.01.2022	**Republic Day**				
	27.01.2022	Examples of volume of parametric curves and polar curves	Enveloping cone of a conicoid and examples	Solution of two dimensional heat equation		Compact set, compactness of metric spaces and examples
	28.01.2022	Examples of volume of parametric curves and polar curves	Assignment	Solution of two dimensional heat equation		Compact set, compactness of metric spaces and examples
	29.01.2022	Examples of volume of parametric curves and polar curves	Paraboloids and circular section with examples	Test		Compact set, compactness of metric spaces and examples
	31.01.2022	Examples of volume of parametric curves and polar curves		Solution of two dimensional heat equation	Introduction of wrenches	Sequential compactness and Bolzano-Weierstrass property
	01.02.2022	Examples of area of surface of resolution		Solution of two dimensional heat equation	Resultant of two wrenches and based examples	Sequential compactness and Bolzano-Weierstrass property
	02.02.2022	Examples of area of surface of resolution		Solution of two dimensional Laplace equation	Introduction of null lines and null planes	Sequential compactness and Bolzano-Weierstrass property
	03.02.2022	Examples of area of surface of resolution	Plane section of conicoids and examples	Solution of two dimensional Laplace equation		Sequential compactness and Bolzano-Weierstrass property
	04.02.2022	Examples of area of surface of resolution	Generating lines and examples	Solution of two dimensional Laplace equation		Total boundedness, Finite intersection property and examples
	05.02.2022	**Basant Panchami**				

Week	Date	Class : B.A. (Calculus)	Class : B.A. (Solid Geometry)	Class : B.A. (Partial Differntial Equation)	Class : B.A. (Statics)	Class : B.A. (Real Analysis)
		Semester : I	**Semester I**	**Semester III**	**Semester III**	**Semester V**
	07.02.2022	Centroid and Pappus and Guldin's Theorem, its examples		Solution of two dimensional Laplace equation	Theorems based on null lines and null planes	Total boundedness, Finite intersection property and examples
	08.02.2022	Centroid and Pappus and Guldin's Theorem, its examples		Examples of two dimensional Laplace equation	Examples based on null lines and null planes	Total boundedness, Finite intersection property and examples
	09.02.2022	Centroid and Pappus and Guldin's Theorem, its examples		Examples of two dimensional Laplace equation	Introduction of equilibrium of forces	Continuity in relation with connectedness
	10.02.2022	Centroid and Pappus and Guldin's Theorem, its examples	Confocal conicoid and examples	Examples of two dimensional Laplace equation		Continuity in relation with connectedness
	11.02.2022	Revision	Reduction of second degree equations and examples	Revision		Continuity in relation with connectedness
	12.02.2022	Revision	Reduction of second degree equations and examples	Revision		Revision
	14.02.2022	Test of complete Syllabus		Test of complete Syllabus	Position of equilibrium	Revision
	15.02.2022	Revision		Revision	Conditions of stability of equilibrium	Test of complete Syllabus
	16.02.2022	**Guru Ravidas Jayanti**				
	17.02.2022	Revision	Revision	Revision		Revision
	18.02.2022	Revision	Test of Complete Syllabus	Revision		Revision
	19.02.2022	Revision	Revision	Revision		Revision
	21.02.2022	Revision		Revision	Revision	Revision
	22.02.2022	Revision		Revision	Test of Complete Syllabus	Revision

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher-- Mrs. Rimpi Wadhwa

Subject -- Math

Week	Date	Class --B.sc 1st (Sub. Algebra)	Class -- B.sc.1st (Sub. Solid Geometry)	Class --B.sc.3rd (Sub. Real Analysis)
		Semester --1st	**Semester -- 1st**	**Semester -- 5th**
	08.10.2021	**Orientation Course**		
	09.10.2021	**Orientation Course**		
	11.10.2021	Introduction to new course	Introduction to course and basic defination	Introduction to course and basic defination
	12.10.2021	Introduction to matrices,types of matrices	General equation of second degree and different type of	Reiman integral - defination,theorems and
	13.10.2021	Types of matrices-symmetric,skew-symmetric	Examples of different second degree equations	Reiman integral - defination,theorems and
	14.10.2021	Types of matrices with properties and examples	Examples of different second degree equations	Reiman integral - defination,theorems and
	15.10.2021	**Dussehra**		
	16.10.2021	Types of matrices with properties and examples	Tracing of conics and examples	Reiman integral - defination,theorems and
	18.10.2021	Rank of matrices using determinat method	Tracing of conics and examples	Integrability continuous functions,examples and
	19.10.2021	Rank of matrices using determinat method	Tangent at any point to the conic,chord of contact with	Integrability continuous functions,examples and
	20.10.2021	**Maharishi Balmiki Jayanti**		
	21.10.2021	Elementry row and column operations	Tangent at any point to the conic,chord of contact with	Integrability continuous functions,examples and
	22.10.2021	Row equivalent,collumn equivalent and equivalent	Pole of line to conic with examples	Integrability continuous functions,examples and
	23.10.2021	Row and column echelon matrices,row and column	Pole of line to conic with examples	Integrability continuous functions,examples and
	25.10.2021	Row and column echelon matrices,row and column	Director circle of conic with examples	Properties of riemann integral
	26.10.2021	Normal form of a matrix and elementry matrix	Director circle of conic with examples	Properties of riemann integral
	27.10.2021	Examples to find rank of matrix by reducing to normal	Systems of conics with examples	Fundamental theorem of integral calcules and based
	28.10.2021	Examples to find rank of matrix by reducing to normal	Systems of conics with examples	Fundamental theorem of integral calcules and based
	29.10.2021	Inverse of a matrix using elementry opreations	Confocal conics, examples	Theorems on continuity and differentiability of integrable
	30.10.2021	Linear depedence and independence	Polar equation of a conic with examples	Theorems on continuity and differentiability of integrable

Week	Date	Class --B.sc 1st (Sub. Algebra)	Class -- B.sc.1st (Sub. Solid Geometry)	Class --B.sc.3rd (Sub. Real Analysis)
		Semester --1st	**Semester -- 1st**	**Semester -- 5th**
	31.10.2021 to 07.11.2021	**Diwali Vacations**		
	08.11.2021	Linear depedence and independence	Polar equation of a conic with examples	Mean value theorems of integral calculus
	09.11.2021	Characterstic polynomial, equation,eigen values	Tangent and normal to the conic,examples	Mean value theorems of integral calculus
	10.11.2021	Characterstic polynomial, equation,eigen values	Tangent and normal to the conic,examples	Introduction to improper integral and their
	11.11.2021	Cayley-hamilton theorems and its use in findig inverse	Definition of sphere and examples	Types of improper integral and their examples
	12.11.2021	Cayley-hamilton theorems and its use in findig inverse	Plane section of sphere and example	Types of improper integral and their examples
	13.11.2021	Monic polynomial, minimal polynomial and equation	Plane section of sphere and example	Types of improper integral and their examples
	15.11.2021	Monic polynomial, minimal polynomial and equation	Sphere through a given circleand based examples	comparison tests for convergence of integrals of
	16.11.2021	Applications of matrices to a system of linear	Sphere through a given circleand based examples	comparison tests for convergence of integrals of
	17.11.2021	Applications of matrices to a system of linear	Intersection of two spheres and examples	comparison tests for convergence of integrals of
	18.11.2021	Sessional	Intersection of two spheres and examples	comparison tests for convergence of integrals of
	19.11.2021	**Guru Nanak Dev Jayanti**		
	20.11.2021	Applications of matrices to a system of linear	Intersection of two spheres and examples	comparison tests for convergence of integrals of
	22.11.2021	**NAAC TEAM VISIT**		
	23.11.2021	**NAAC TEAM VISIT**		
	24.11.2021	Theorems on consistecy of a system of liner	Sessional	Abel's test and dirichlet's test and based examples
	25.11.2021	Theorems on consistecy of a system of liner	Radical plane of two spheres, based examples	Sessional
	26.11.2021	Theorems on consistecy of a system of liner	Radical plane of two spheres, based examples	Abel's test and dirichlet's test and based examples
	27.11.2021	Assignment	co-axal system of spheres with examples	Abel's test and dirichlet's test and based examples
	29.11.2021	Unitary and orthogonal matrices with examples	co-axal system of spheres with examples	Frullani's integral and based examples
	30.11.2021	Unitary and orthogonal matrices with examples	Assignment	Assignment
	01.12.2021	Bilinear and quardratic forms with examples	Definition of cone and examples	Frullani's integral and based examples
	02.12.2021	Bilinear and quardratic forms with examples	Right circular cone with examples	Frullani's integral and based examples

Week	Date	Class --B.sc 1st (Sub. Algebra)	Class -- B.sc.1st (Sub. Solid Geometry)	Class --B.sc.3rd (Sub. Real Analysis)
		Semester --1st	**Semester -- 1st**	**Semester -- 5th**
	03.12.2021	Synthetic division and examples	Right circular cone with examples	Integral as a function of a parameter
	04.12.2021	Relation between the roots and coefficient of general	Enveloping cone and examples	Continuity of the integral and examples
	06.12.2021	Relation between the roots and coefficient of general	Enveloping cone and examples	Derivability of the integral and examples
	07.12.2021	Relation between the roots and coefficient of general	Reciprocal cone with examples	Derivability of the integral and examples
	08.12.2021	Solution of polynomial equation having conditions	Right circular cylinder and examples	Integrability of an integral of a function of parameter and
	09.12.2021	Assignment	Right circular cylinder and examples	Integrability of an integral of a function of parameter and
	10.12.2021	Common roots and multipal roots examples	Enveloping cylinder	Definition and examples of metric spaces
	11.12.2021	Common roots and multipal roots examples	Central conicodis, equation of tangent plane, examples	Examples of metric spaces
	13.12.2021	Common roots and multipal roots examples	Central conicodis, equation of tangent plane, examples	Examples of metric spaces
	14.12.2021	Transformation of equation with different	Director sphere and examples	Examples of metric spaces
	15.12.2021	Transformation of equation with different	Director sphere and examples	Assignment
	16.12.2021	Transformation of equation with different	Normal to the conicoids and examples	Open and closed sphere and examples
	17.12.2021	Transformation of equation with different	Normal to the conicoids and examples	Neighbourhood, interior point, open set and based
	18.12.2021	Transformation of equation with different	Polar plane of a point and examples	Neighbourhood, interior point, open set and based
	20.12.2021	Solutions of cubic and biquadratic equation	Polar plane of a point and examples	Neighbourhood, interior point, open set and based
	21.12.2021	Cardan's method of solving a cubic equation, examples	Enveloping cone of a conicoid and examples	Adherent point, limit point, isolated point, derived set
	22.12.2021	Cardan's method of solving a cubic equation, examples	Enveloping cone of a conicoid and examples	Closure of a set, closed set and examples
	23.12.2021	Cardan's method of solving a cubic equation, examples	Enveloping cylinder of a conicoid and examples	Boundary points and sub spaces of metric space
	24.12.2021	Cardan's method of solving a cubic equation, examples	Enveloping cone of a conicoid and examples	Equivalent mertrices and examples

Week	Date	Class --B.sc 1st (Sub. Algebra)	Class -- B.sc.1st (Sub. Solid Geometry)	Class --B.sc.3rd (Sub. Real Analysis)
		Semester --1st	**Semester -- 1st**	**Semester -- 5th**
	25.12.2021	**Christmas**		
	27.12.2021	Test	Enveloping cone of a conicoid and examples	Equivalent mertrices and examples
	28.12.2021	Test	Enveloping cylinder of a conicoid and examples	Equivalent mertrices and examples
	29.12.2021	Test	Test	Test
	30.12.2021	Cardan's method of solving a cubic equation, examples	Enveloping cylinder of a conicoid and examples	Convergence of sequence in metric space and examples
	31.12.2021	Cardan's method of solving a cubic equation, examples	Assignment	Convergence of sequence in metric space and examples
	01.01.2022	Sessional	Enveloping cylinder of a conicoid and examples	Cauchy sequence and completeness of metric spaces and examples
	03.01.2022	Descarte's solution of the biquadratic, examples	Enveloping cylinder of a conicoid and examples	Cauchy sequence and completeness of metric spaces and examples
	04.01.2022	Descarte's solution of the biquadratic, examples	Test	Test
	05.01.2022	Descarte's solution of the biquadratic, examples	Paraboloids and circular section with examples	Baire's category theorem and examples
	06.01.2022	Descarte's solution of the biquadratic, examples	Paraboloids and circular section with examples	Baire's category theorem and examples
	07.01.2022	Test	Paraboloids and circular section with examples	Contraction principle and examples
	08.01.2022	Descarte's solution of the biquadratic, examples	Paraboloids and circular section with examples	Contraction principle and examples
	10.01.2022	Test	Plane section of conicoids and examples	Contraction principle and examples
	11.01.2022	Descarte's solution of the biquadratic, examples	Plane section of conicoids and examples	Continuous function and examples
	12.01.2022	Test	Plane section of conicoids and examples	Continuous function and examples
	13.01.2022	Test	Sessional	Sessional
	14.01.2022	Test	Plane section of conicoids and examples	Revision
	15.01.2022	Ferrari method of solving a biquadratic, examples	Generating lines and examples	Revision
	17.01.2022	Ferrari method of solving a biquadratic, examples	Test	Revision
	18.01.2022	Ferrari method of solving a biquadratic, examples	Test	Revision
	19.01.2022	Ferrari method of solving a biquadratic, examples	Generating lines and examples	Uniform continuous function and examples
	20.01.2022	Sessional	Generating lines and examples	Uniform continuous function and examples

Week	Date	Class --B.sc 1st (Sub. Algebra)	Class -- B.sc.1st (Sub. Solid Geometry)	Class --B.sc.3rd (Sub. Real Analysis)
		Semester --1st	**Semester -- 1st**	**Semester -- 5th**
	21.01.2022	Ferrari method of solving a biquadratic, examples	Generating lines and examples	Uniform continuous function and examples
	22.01.2022	Test	Confocal conicoid and examples	Compact set, compactness of metric spaces and examples
	24.01.2022	Test	Confocal conicoid and examples	Compact set, compactness of metric spaces and examples
	25.01.2022	Descarte's rule of signs	Confocal conicoid and examples	Compact set, compactness of metric spaces and examples
	26.01.2022	**Republic Day**		
	27.01.2022	Test	Confocal conicoid and examples	Sequential compactness and bolzano-weierstrass property
	28.01.2022	Test	Confocal conicoid and examples	Sequential compactness and bolzano-weierstrass property
	29.01.2022	Descarte's rule of signs	Test	Test
	31.01.2022	Continuation or permanence of signs	Reduction of second degree equation and examples	Total boundedness, finite inter section property
	01.02.2022	Complex roots	Reduction of second degree equation and examples	Total boundedness, finite inter section property
	02.02.2022	Revision	Reduction of second degree equation and examples	Continuity in relation with compactness, connectedness and components
	03.02.2022	Revision	Reduction of second degree equation and examples	Continuity in relation with compactness, connectedness and components
	04.02.2022	Revision	Reduction of second degree equation and examples	Continuity in relation with compactness, connectedness and components
	05.02.2022	**Basant Panchami**		
	07.02.2022	Revision and Test	Revision and Test	Revision and Test
	08.02.2022	Revision and Test	Revision and Test	Revision and Test
	09.02.2022	Revision and Test	Revision and Test	Revision and Test
	10.02.2022	Revision and Test	Revision and Test	Revision and Test
	11.02.2022	Revision and Test	Revision and Test	Revision and Test
	12.02.2022	Revision and Test	Revision and Test	Revision and Test
	14.02.2022	Revision and Test	Revision and Test	Revision and Test
	15.02.2022	Revision and Test	Revision and Test	Revision and Test
	16.02.2022	**Guru Ravidas Jayanti**		
	17.02.2022	Revision and Test	Revision and Test	Revision and Test
	18.02.2022	Revision and Test	Revision and Test	Revision and Test
	19.02.2022	Revision and Test	Revision and Test	Revision and Test
	21.02.2022	Revision and Test	Revision and Test	Revision and Test
	22.02.2022	Revision and Test	Revision and Test	Revision and Test

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher:-SUKRITI

Subject :-MATHS

Week	Date	Class:b.sc(c.sc) Subject:-calculus	
		Semester :;-1st	
	08.10.2021	**Orientation Course**	
	09.10.2021	**Orientation Course**	
	11.10.2021	Bridge Course	
	12.10.2021	Bridge Course	
	13.10.2021	Derivative of a function	
	14.10.2021	Sum standard results of integration	
	15.10.2021	**Dussehra**	
	16.10.2021	Limit of a function & left & right hand limits	
	18.10.2021	Examples on limits	
	19.10.2021	Examples on limits	
	20.10.2021	**Maharishi Balmiki Jayanti**	
	21.10.2021	Continuous and discontinuous functions	
	22.10.2021	Examples of continuity	
	23.10.2021	Examples of continuity	
	25.10.2021	Classification of discontinuities	
	26.10.2021	Doubts	
	27.10.2021	Indroduction of successive differentiation	
	28.10.2021	Some results of nth derivatives	
	29.10.2021	Examples of nth derivatives	
	30.10.2021	Examples of nth derivatives	
	31.10.2021 to 07.11.2021	**Diwali Vacations**	
	08.11.2021	Leibnitz's Theorem	
	09.11.2021	Leibnitz' s Theorem and based examples	
	10.11.2021	Leibnitz 's Theorem and based examples	
	11.11.2021	Doubts of successive differentiation	
	12.11.2021	Tests	
	13.11.2021	Introduction of differentiable functions	
	15.11.2021	Taylor's Theorem with Lagrange form of remainder after " n"	
	16.11.2021	Examples based on taylor' s theorem	
	17.11.2021	Applications of taylor's theorem	
	18.11.2021	Expansion by Differential equations	
	19.11.2021	**Guru Nanak Dev Jayanti**	
	20.11.2021	introduction of asymptotes	
	22.11.2021	**NAAC TEAM VISIT**	
	23.11.2021	**NAAC TEAM VISIT**	
	24.11.2021	Type of asymptotes & examples	
	25.11.2021	Oblique asymptotes & examples	
	26.11.2021	Oblique asymptotes and examples	
	27.11.2021	Test	
	29.11.2021	Example of polar curves	
	30.11.2021	Position of the curve with respect to the asymptotes	
	01.12.2021	Position of the curve with respect to the asymptotes	

Week	Date	Class:b.sc(c.sc) Subject:-calculus	
		Semester :;-1st	
	02.12.2021	Doubts of asymptotes	
	03.12.2021	Test	
	04.12.2021	Assignment	
	06.12.2021	Introduction to Curvature	
	07.12.2021	Centre of curvature & circle of curvature based examples	
	08.12.2021	Radius of curvature for polar equations based examples	
	09.12.2021	Radius of curvature for polar equations based examples	
	10.12.2021	Transformation of polar to pedal form	
	11.12.2021	Radius of curvature at the origin	
	13.12.2021	Examples of radius of curvature at the origin	
	14.12.2021	Centre, circle & evolute of curvature and its examples	
	15.12.2021	Centre, circle & evolute of curvature and its examples	
	16.12.2021	Doubts related to curvature	
	17.12.2021	Introduction to singular points	
	18.12.2021	Types of singular points - node ,cusp,conjugate point	
	20.12.2021	Examples of nature of double point at origin and other than origin	
	21.12.2021	Examples of nature of double point at origin and other than origin	
	22.12.2021	Examples of nature of cusp of 1st or 2nd species,single or double cusp	
	23.12.2021	Concavity,convexity & point of inflexion of curve	
	24.12.2021	based examples	
	25.12.2021	**Christmas**	
	27.12.2021	Concavity,convexity & point of inflexion of curve	
	28.12.2021	Test	
	29.12.2021	Introduction to curve tracing	
	30.12.2021	Examples of tracing of curves in case of cartesian coordinates	
	31.12.2021	Examples of tracing of curves in case of cartesian coordinates	
	01.01.2022	Tracing of curves in parametric equations and its examples	
	03.01.2022	Tracing of curves in parametric equations and its examples	
	04.01.2022	Tracing of curves in parametric equations and its examples	
	05.01.2022	Tracing of polar curves and examples	
	06.01.2022	Tracing of polar curves and examples	
	07.01.2022	Tracing of polar curves and examples	
	08.01.2022	Introduction to reduction formulae	
	10.01.2022	Examples using different reduction formulae	
	11.01.2022	Examples using different reduction formulae	
	12.01.2022	Examples using different reduction formulae	
	13.01.2022	Examples using different reduction formulae	
	14.01.2022	Examples using different reduction formulae	
	15.01.2022	Doubts related to reduction formulae	
	17.01.2022	Test	
	18.01.2022	Introduction to rectification	
	19.01.2022	Examples of length ofarc in cartesian form	
	20.01.2022	Examples of length ofarc in cartesian form	
	21.01.2022	Examples of length of parametric forms	
	22.01.2022	Examples of length of parametric forms	
	24.01.2022	Examples of length of polar forms	

Week	Date	Class:b.sc(c.sc) Subject:-calculus	
		Semester :;-1st	
	25.01.2022	Examples of length of polar forms	
	26.01.2022	**Republic Day**	
	27.01.2022	Examples of intrinsic equation of curve	
	28.01.2022	Introduction to quadrarure	
	29.01.2022	Examplesof area of curve and line	
	31.01.2022	Examples of area between two curves	
	01.02.2022	Test	
	02.02.2022	Examples of area of polar curves	
	03.02.2022	Examples of area between two polae curves	
	04.02.2022	Introduction to volume and surfaces of solids of revolution	
	05.02.2022	**Basant Panchami**	
	07.02.2022	Examples of volume of a solid of revolution	
	08.02.2022	Examples of volume of parametric curves and polar curves	
	09.02.2022	Examples of volume of parametric curves and polar curves	
	10.02.2022	Examples of area of surface of revolution	
	11.02.2022	Examples of area of surface of revolution	
	12.02.2022	Centroid and pappus and guldin's theorem,its examples	
	14.02.2022	Centroid and pappus and guldin's theorem,its examples	
	15.02.2022	Doubts	
	16.02.2022	**Guru Ravidas Jayanti**	
	17.02.2022	Revision	
	18.02.2022	Revision	
	19.02.2022	Revision	
	21.02.2022	Problems related to complete syllabus	
	22.02.2022	Test of complete syllabus	

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2021-22 (08.10.2021 to 22.02.2022)

Name of Teacher:-sukriti

Subject :-Mathematics

Week	Date	Class :-B.Sc(N.M,C.Sc), Subject:-P.D.E	Class :-B.Sc.(N.M,C.Sc.) ,Subject:-statics	Class:-B.A3/B.Sc.(N.M ,C.Sc) ,Subject:-Numerical Analysis
		Semester:-3rd	**Semester:- 3rd**	**Semester:-5th**
	08.10.2021	**Orientation Course**		
	09.10.2021	**Orientation Course**		
	11.10.2021	ch:-1 Introduction of partial differential equations	ch:-1 Introduction of force acting at a point	Introduction of syllabus
	12.10.2021	example of exercise	Parallelogram law of force,magnitude and direction of the resultant	ch-1 basic definitions of operators
	13.10.2021	introduction of formation of pde and based examples	examples of exercise 1.1	Diagonal forward difference table
	14.10.2021	problem related to ch-1	remaining example of 1.1	Based properties
	15.10.2021	**Dussehra**		
	16.10.2021	ch-2 introduction of first order linear pde and based examples	topic-components of a given force in two direction	Based examples
	18.10.2021	solution of Lagrange's linear equations and based examples	resolved part of a given force and based examples	Relations between operators
	19.10.2021	example based on ch-2	triangle law of forces and based examples	Effect of an error in a tabular value
	20.10.2021	**Maharishi Balmiki Jayanti**		
	21.10.2021	example based on ch-2	important theorem and based examples	problem related to ch-1
	22.10.2021	ch-3 introduction of first order non linear pde and based examples	lami's theorem and based examples	queries of ch-1
	23.10.2021	based examples	polygon law of forces and based examples	ch-2 definations of interpolation and extrapolations
	25.10.2021	charpit's method and based examples	resultant of any number of concurrent and coplanar forces	Newton's Gregory Formula for forward interpolation
	26.10.2021	some standard form and based examples	condition of equilibrium of concurrent forces and based examples	Based examples
	27.10.2021	based examples	equilibrium of bodies placed on a smooth inclined plane and based examples	Based examples
	28.10.2021	jacobi's method and based examples	problem based on ch-1	Newton's Gregory Formula for backward interpolation

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		Semester:-3rd	**Semester:- 3rd**	**Semester:-5th**
	29.10.2021	ch-4 introduction of linear pde of second and higher order	ch-2 introduction of parallel forces	based examples
	30.10.2021	examples of 4.1	important theorem and based examples	sub division of intervals
	31.10.2021 to 07.11.2021	**Diwali Vacations**		
	08.11.2021	examples of 4.2	examples based on parallel forces	based examples
	09.11.2021	examples of 4.2	ch-3 introduction of moments and based examples	problem related to ch-2
	10.11.2021	problem based on ch-4	varigon's theorem and based examples	ch-3 Newton's Divided Difference Formula
	11.11.2021	test of ch:-1	important theorem and based examples	Based examples
	12.11.2021	problem based on ch-4	examples based on moment	Based examples
	13.11.2021	ch-5 introduction of pde with variable coefficient reducible to equations with constant coefficient	based examples	Lagrange's Interpolation Formula
	15.11.2021	based examples	examples based on ch-4	Based examples
	16.11.2021	test of ch:-2	ch-5 introduction of analytical condition of equilibrium of co-planer forces	Based examples
	17.11.2021	ch-6 introduction of canonical form of second order linear pde		Hermite's Formula
	18.11.2021	exercise 6.1	based examples	Based examples
	19.11.2021	**Guru Nanak Dev Jayanti**		
	20.11.2021	problem related to ch-6	remaining example	problem related to ch-3
	22.11.2021	**NAAC TEAM VISIT**		
	23.11.2021	**NAAC TEAM VISIT**		
	24.11.2021	reduction of 2nd order linear pde to canonical form	problem based on ch-1	problem related to ch-3
	25.11.2021	examples based on reduction of hyperbolic equatins to its canonical form	problem related to ch-5	assignment submission
	26.11.2021	examples based on reduction of hyperbolic equatins	ch-6 introduction of friction	ch-4 Gauss forward formula
	27.11.2021	examples based on parabolic equations to the canonical form	examples based on friction	Based examples

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		Semester:-3rd	**Semester:- 3rd**	**Semester:-5th**
	29.11.2021	based examples on 6.3	examples based on friction	Gauss backward formula
	30.11.2021	reduction of elliptic equation to the canonical form	examples based on friction	Based examples
	01.12.2021	based examples	problem related to ch-6	practical in lab
	02.12.2021	problem related to ch-6	problem related to ch-6	Based examples
	03.12.2021	test of section 1st	ch-7 introduction of centre of gravity	sterling and bassel's formula
	04.12.2021	ch-7 introduction of ch-7	important theorem on centre of gravity	Based examples
	06.12.2021	monge's mdethod	examples based on centre of gravity	problem related to ch-4
	07.12.2021	based examples	centre of gravity and based examples	problem related to ch-4
	08.12.2021	examples based on 7.1	examples based on ch-7	test of ch-4
	09.12.2021	remaining examples of 7.1	examples based on ch-7	practical in lab
	10.12.2021	examples based on 7.2	test of ch-1	practical in lab
	11.12.2021	problem based on ch-7	assignment of section -1	ch-5 introduction of probability and basic definitions
	13.12.2021	test of ch-4	problem related to ch-7	Based examples
	14.12.2021	problem based on chapter 7	problem related to ch-7	binomial distribution
	15.12.2021	assignment of section 1	ch-8 introduction of virtual work,principle of virtual work	Based examples
	16.12.2021	ch-8 characteristics of 2nd order pde and cauchy's problem	based examples	Based examples
	17.12.2021	characteristics equations and characteristics curve	based examples	practical in lab
	18.12.2021	based examples	problem related to ch-8	practical in lab
	20.12.2021	test of ch-6	test of ch-4	poission distribution and based examples
	21.12.2021	cauchy's problem	ch-9 introduction of forces in three dimensions and based theorems	normal distribution and based examples
	22.12.2021	based examples	based examples	problem related to ch-5
	23.12.2021	remaining examples	based examples	test of ch-5
	24.12.2021	ch-9 method of sepration of variable-wave,heat and laplace equations	based examples	ch-6 derivatives using newton's forward formula and based examples
	25.12.2021	**Christmas**		
	27.12.2021	test of ch-7	problem related to ch-9	derivatives using sterling and bassel's formula
	28.12.2021	based examples	problem related to ch-9	Based examples
	29.12.2021	method of separation of variable	test of ch-6	problem related to ch-6

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		Semester:-3rd	**Semester:- 3rd**	**Semester:-5th**
	30.12.2021	1D wave equation-solution by method of separation of variable	ch-10 introduction of wrenches and based theorem	practical in lab
	31.12.2021	based examples	based theorem	practical in lab
	01.01.2022	based examples	based examples	Based examples
	03.01.2022	solution of 1D Wave equation-solution satisfying the given boundary and initial condition	based examples	ch-7 power and jacobi's method for eigen values
	04.01.2022	based examples	based examples	given method and based examples
	05.01.2022	based examples	problem related to ch-10	house holder's method and based examples
	06.01.2022	test of ch-8	problem related to ch-10	practical in lab
	07.01.2022	problem related to ch-8	ch-11 introduction of null lines and null planes	practical in lab
	08.01.2022	problem related to 9.1	based theorem	problem related to ch-7
	10.01.2022	solution of two dimentional heat equations	based theorem	ch-8 newton's quotes quadrature formula and trapezoidal rule
	11.01.2022	examples based on 9.2	based examples	Based examples
	12.01.2022	based examples	based examples	practical in lab
	13.01.2022	based examples	test of ch-7	practical in lab
	14.01.2022	solution of two dimentional laplace equations	problem related to ch-11	test of ch-7
	15.01.2022	based examples	problem related to ch-11	simpson's rule and based examples
	17.01.2022	solution of laplace equations satisfying given initial and boundary conditions	ch-12 introduction of stable,unstable and neutral equilibrium	Based examples
	18.01.2022	based examples	based theorem	gauss's quadrature rule and based examples
	19.01.2022	problem related to ch-9	important topics of ch-12	problem related to ch-8
	20.01.2022	assignment of section 3	based examples	ch-9 Euler's and its modified method
	21.01.2022	test of ch-9	based examples	practical in lab
	22.01.2022	problem related to section 1	based examples	practical in lab
	24.01.2022	problem related to section 1	test of ch-9	Taylor's method and R.K method
	25.01.2022	test of section 1st	problem related to ch-12	Based examples
	26.01.2022	**Republic Day**		
	27.01.2022	problem related to ch-4	prpblem related to ch-1	picard's method
	28.01.2022	problem related to ch-4	prpblem related to ch-2	milne simpson's rule
	29.01.2022	problem related to ch-5	problem related to ch-3	Based examples
	31.01.2022	problem related to ch-5	assignment of section -3	problem related to ch-9
	01.02.2022	test of section 2nd	test of ch-1 and ch-2	revision of unit-1

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		Semester:-3rd	**Semester:- 3rd**	**Semester:-5th**
	02.02.2022	problem related to ch-6	problem related to ch-4	revision of unit-2
	03.02.2022	problem related to ch-6	problem related to ch-3 and ch-4	revision of unit-3
	04.02.2022	problem related to ch-7	test of ch-3 and ch-4	revision of unit-4
	05.02.2022	**Basant Panchami**		
	07.02.2022	problem related to ch-7	problem related to ch-5	full book revision
	08.02.2022	test of section 3rd	problem related to ch-6	full book revision
	09.02.2022	problem related to ch-8	test of ch-5 and ch-6	test of unit-1
	10.02.2022	problem related to ch-8	problem related to ch-7	test of unit-2
	11.02.2022	problem related to ch-9	problem related to ch-8	test of unit-3
	12.02.2022	problem related to ch-9	problem related to ch-9	test of unit-4
	14.02.2022	test of section 4th	problem related to ch-10	test of full syllabus
	15.02.2022	problem related to section 1st and 2nd	problem related to ch-11 and ch-12	test of full syllabus
	16.02.2022	**Guru Ravidas Jayanti**		
	17.02.2022	test of section 1st and 2nd	test of unit-1	
	18.02.2022	problem related to section 3rd and 4th	test of unit-2	
	19.02.2022	test of section 3rd and 4th	test of unit-3	
	21.02.2022	problem related to complete syllabus	test of unit-4	
	22.02.2022	full test	full test	