

Dayanand Mahila Mahavidyalaya, Kurukshetra				
Lesson Plan (Even Semester)				
Session 2023-24 (01.01.2024 to 30.04.2024)				
Name of Teacher: Mrs. Prabhjot Kaur				
Subject: Mathematics				
Day	Date	Class: B.A./B.Sc II Year	Class: B.A./B.Sc III Year	Class: B.A./B.Sc II Year
		Semester: IV (1-2 Theory) Paper: Programming in C and Complex Analysis	Semester: VI (2-4) Paper: Real and Complex Analysis	Semester: IV (1-2 Practical) Paper: Programming in C and Complex Analysis
Monday	01.01.2024	Introduction to content of course		Practical Class
Tuesday	02.01.2024	Programmer's model of a computer	Basic Definition and Introduction to Jacobians	Practical Class
Wednesday	03.01.2024		Some theorems on Jacobian	
Thursday	04.01.2024		Beta function and its properties	
Friday	05.01.2024			
Saturday	06.01.2024			
Monday	08.01.2024	Definition of Algorithm and examples		Practical Class
Tuesday	09.01.2024	Flow charts and examples	Beta function and its properties	Practical Class
Wednesday	10.01.2024		Examples of beta function	
Thursday	11.01.2024		Gamma function and its properties	
Friday	12.01.2024			
Saturday	13.01.2024			
Monday	15.01.2024	Data types and examples		Practical Class
Tuesday	16.01.2024	Operators and expressions	Examples of gamma function	Practical Class
Wednesday	17.01.2024	Shri Guru Gobind Singh Ji Jayanti		
Thursday	18.01.2024		Relation between beta and gamma function	
Friday	19.01.2024			
Saturday	20.01.2024			
Monday	22.01.2024	Input/Output Functions		Practical Class
Tuesday	23.01.2024	Decision Statements and examples	Double integral and its examples	Practical Class
Wednesday	24.01.2024		Substitution method for double integrals	
Thursday	25.01.2024		Triple integral and its examples	
Friday	26.01.2024	Republic Day		
Saturday	27.01.2024			
Monday	29.01.2024	Conditional and Logical Statements		Practical Class
Tuesday	30.01.2024	Implementation of loops and examples	Substitution method for triple integrals	Practical Class

Day	Date	Class: B.A./B.Sc II Year	Class: B.A./B.Sc III Year	Class: B.A./B.Sc II Year
		Semester: IV (1-2 Theory) Paper: Programming in C and Complex Analysis	Semester: VI (2-4) Paper: Real and Complex Analysis	Semester: IV (1-2 Practical) Paper: Programming in C and Complex Analysis
Wednesday	31.01.2024		Applications of double integral and triple integral	
Thursday	01.02.2024		Dirichlets integrals and its examples	
Friday	02.02.2024			
Saturday	03.02.2024			
Monday	05.02.2024	Switch statement and case control structures		Practical Class
Tuesday	06.02.2024	Functions and examples + Test	Change of order of integration in double integrals and its examples	Practical Class
Wednesday	07.02.2024		Fourier's Series and Fourier expansion of piecewise monotonic functions	
Thursday	08.02.2024		Examples of Fourier series and Properties of Fourier coefficients	
Friday	09.02.2024			
Saturday	10.02.2024			
Monday	12.02.2024	Preprocessors and arrays with examples		
Tuesday	13.02.2024	Strings and examples	Dirichlets condition and its examples + Test	
Wednesday	14.02.2024	Basant Panchmi/Sir Chhotu Ram Jayanti		
Thursday	15.02.2024		Parseval's identity for Fourier series and its examples	
Friday	16.02.2024			
Saturday	17.02.2024			
Monday	19.02.2024	Character data type and Standard string handling functions		Practical Class
Tuesday	20.02.2024	Arithmetic operations and exmaples	Fourier series for even functions and its examples	Practical Class
Wednesday	21.02.2024		Fourier series for odd functions and its examples	
Thursday	22.02.2024		Half range series and its examples	
Friday	23.02.2024			
Saturday	24.02.2024	Guru Ravidas Jayanti		
Monday	26.02.2024	Definition of Structures, using structures		Practical Class

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		Semester: IV (1-2 Theory) Paper: Programming in C and Complex Analysis	Semester: VI (2-4) Paper: Real and Complex Analysis	Semester: IV (1-2 Practical) Paper: Programming in C and Complex Analysis
Tuesday	27.02.2024	Use of Structures in arrays and arrays in structures	Change of intervals and its examples	Practical Class
Wednesday	28.02.2024		Extended complex plane and Stereographic projection of complex numbers	
Thursday	29.02.2024		Examples of stereographic projection	
Friday	01.03.2024			
Saturday	02.03.2024			
Monday	04.03.2024	Pointers and functions with examples + Assignment		Practical Class
Tuesday	05.03.2024	Solution of Algebraic and Transcendental equations : Bisection method with examples	Continuity of complex functions and its examples	Practical Class
Wednesday	06.03.2024		Differentiability of complex functions and its examples + Assignment	
Thursday	07.03.2024		Analytic functions , its theorems and examples	
Friday	08.03.2024	Maha Shivratri		
Saturday	09.03.2024			
Monday	11.03.2024	Regula Falsi method and exmamples		Practical Class
Tuesday	12.03.2024	Secant Method and exmaples	Cauchy-Reimann equations and its examples + Test	Practical Class
Wednesday	13.03.2024		Harmonic functions and it examples	
Thursday	14.03.2024		Mapping by elementary functions and Some elementary mappings	
Friday	15.03.2024			
Saturday	16.03.2024			
Monday	18.03.2024	Newton-Raphson's Method and examples + Test		Practical Class
Tuesday	19.03.2024	Newton's Iterative Method for finding pth root of a number	Translation, Rotation, Magnification, Inversion and their examples	Practical Class
Wednesday	20.03.2024		Mobius transformation, Nature and examples of mobius transformation	

Day	Date	Class: B.A./B.Sc II Year	Class: B.A./B.Sc III Year	Class: B.A./B.Sc II Year
		Semester: IV (1-2 Theory) Paper: Programming in C and Complex Analysis	Semester: VI (2-4) Paper: Real and Complex Analysis	Semester: IV (1-2 Practical) Paper: Programming in C and Complex Analysis
Thursday	21.03.2024		Fixed points and their properties, Cross ratio	
Friday	22.03.2024			
23.03.2024 to 31.03.2024		Holi Vacations		
Monday	01.04.2024	Order of convergence of all methods		Practical Class
Tuesday	02.04.2024	Simutaneous linear algebraic equations: Gauss Elimination Method with examples	Inverse points and some examples of inverse points	Practical Class
Wednesday	03.04.2024		Inverse points and some examples of inverse points	
Thursday	04.04.2024		Theorems on critical mappings	
Friday	05.04.2024			
Saturday	06.04.2024			
Monday	08.04.2024	Triangularisation method with examples		Practical Class
Tuesday	09.04.2024	Crout's Method with examples		Practical Class
Wednesday	10.04.2024			
Thursday	11.04.2024	Id-Ul-Fitr		
Friday	12.04.2024			
Saturday	13.04.2024	Vaisakhi/Chhath Puja		
Monday	15.04.2024	Cholesky Decomposition Method and examples		Practical Class
Tuesday	16.04.2024	Iterative method, Jacobi's Method with examples		Practical Class
Wednesday	17.04.2024	Ram Navami		
Thursday	18.04.2024			
Friday	19.04.2024			
Saturday	20.04.2024			
Monday	22.04.2024	Gauss Seidal's Method, Relaxation Method and examples		Practical Class
Tuesday	23.04.2024	Revision of complete Syllabus	Theorems on critical mappings	Practical Class
Wednesday	24.04.2024		Revision of complete syllabus	
Thursday	25.04.2024		Test of complete syllabus	
Friday	26.04.2024			

Day	Date	Class: B.A./B.Sc II Year	Class: B.A./B.Sc III Year	Class: B.A./B.Sc II Year
		Semester: IV (1-2 Theory) Paper: Programming in C and Complex Analysis	Semester: VI (2-4) Paper: Real and Complex Analysis	Semester: IV (1-2 Practical) Paper: Programming in C and Complex Analysis
Saturday	27.04.2024			
Monday	29.04.2024	Revision of complete Syllabus		Practical Class
Tuesday	30.04.2024	Test of complete syllabus		Practical Class

Dayanand Mahila Mahavidyalaya, Kurukshetra**Lesson Plan (Even Semester)**

Session 2023-24 (01.01.2024 to 30.04.2024)

Name of Teacher: Ms. Sukriti

Subject: -Mathematics

Day	Date	Class:-B.Sc+B.A 2nd year	Class:-B.Sc+B.A 3rd year
		Semester:-4th(special function and integral transform)	Semester:-6th(Dynamics)
Monday	01.01.2024	introduction of power series,convergence of power series,interval of convergence	
Tuesday	02.01.2024	operation of power series,analytic function,singular point definition	
Wednesday	03.01.2024	example based upon singularity	ch-1 motion along a plane curve,introduction,some important concept and based examples
Thursday	04.01.2024	existence of power series solution and example based upon it	examples of ex:-1.2
Friday	05.01.2024		examples of ex-1.3
Saturday	06.01.2024		ch-2 Relative motion basic concept and based examples
Monday	08.01.2024	solution of O.D.E	
Tuesday	09.01.2024	based examples	
Wednesday	10.01.2024	Frobenius method and it's explanation,working rule	ch-3 SHM ,articles
Thursday	11.01.2024	based examples	based examples
Friday	12.01.2024		ch-4 Elastic string,hooks law,horizontal and vertical elastic string
Saturday	13.01.2024		remaining examples of ch-4
Monday	15.01.2024	discuss the different cases of solution of differential equation	
Tuesday	16.01.2024	based examples	
Wednesday	17.01.2024	Shri Guru Gobind Singh Ji Jayanti	
Thursday	18.01.2024	questions based on solution of differential equation	test+assignment
Friday	19.01.2024		ch-5 Newton's law of motion some definitions
Saturday	20.01.2024		examples of ex-5.1
Monday	22.01.2024	discuss the doubt of above topics	
Tuesday	23.01.2024	summary of chapter-1	
Wednesday	24.01.2024	introduction of beta function and their properties	examples of ex-5.2
Thursday	25.01.2024	introduction of gamma function and their properties	articals and examples of ex-5.3
Friday	26.01.2024	Republic Day	
Saturday	27.01.2024		ch-6 basic concepts of work,power and energy and based examples
Monday	29.01.2024	explanation of besse's equation and it's solution	
Tuesday	30.01.2024	explanation of besse's function	
Wednesday	31.01.2024	recurrence relation for besse's functions	examples based on power
Thursday	01.02.2024	based examples	articals based on energy
Friday	02.02.2024		test

Day	Date	Class:-B.Sc+B.A 2nd year	Class:-B.Sc+B.A 3rd year
		Semester:-4th(special function and integral transform)	Semester:-6th(Dynamics)
Saturday	03.02.2024		ch-7 motion of a particle on smooth curve in vertical plane and based examples
Monday	05.02.2024	representation of Bessel's function in integral	
Tuesday	06.02.2024	example of Jacobi's series	
Wednesday	07.02.2024	equation reducible to Bessel's equation	motion on the outside of a vertical circle and based examples
Thursday	08.02.2024	tips to reduce the equation to Bessel's equation and question based upon it	motion on the inside of a smooth vertical circle based examples
Friday	09.02.2024		some important results for a cycloid, motion on a cycloid
Saturday	10.02.2024		remaining examples of ex-7.4
Monday	12.02.2024	orthogonality relation of Bessel's function	
Tuesday	13.02.2024	test	
Wednesday	14.02.2024	Basant Panchmi/Sir Chhotu Ram Jayanti	
Thursday	15.02.2024	Legendre's equation and polynomial	motion on a rough curve under gravity and based examples
Friday	16.02.2024		based examples
Saturday	17.02.2024		remaining examples
Monday	19.02.2024	Rodrigue's formula, derivation of Legendre's polynomial from Rodrigue's formula	
Tuesday	20.02.2024	generating function for Rodrigue's formula and based examples	
Wednesday	21.02.2024	Recurrence relation and its examples	ch-8 projectiles
Thursday	22.02.2024	orthogonality of Legendre's polynomial and its example	some important articles
Friday	23.02.2024		based examples
Saturday	24.02.2024	Guru Ravidas Jayanti	
Monday	26.02.2024	summary of chapter-3+assignment+test	
Tuesday	27.02.2024	ch-4 Hermite's equation and its solution	
Wednesday	28.02.2024	Hermite's polynomial and generating function for it	remaining examples of ex-8.1
Thursday	29.02.2024	recurrence relation and its examples	velocity at any point of the trajectory and based examples
Friday	01.03.2024		remaining examples of ex-8.2
Saturday	02.03.2024		directions of projection for a particle to hit a given point and based examples
Monday	04.03.2024	orthogonal property of Hermite's polynomial and its examples	
Tuesday	05.03.2024	discussion of doubt of chapter 4	
Wednesday	06.03.2024	chapter-5 introduction of Laplace transformation	remaining examples of ex-8.3
Thursday	07.03.2024	linear property of Laplace transformation and based examples	articles and examples of ex-8.4
Friday	08.03.2024	Maha Shivratri	
Saturday	09.03.2024		test
Monday	11.03.2024	examples of first shifting property	

Day	Date	Class:-B.Sc+B.A 2nd year	Class:-B.Sc+B.A 3rd year
		Semester:-4th(special function and integral transform)	Semester:-6th(Dynamics)
Tuesday	12.03.2024	function of exponential operator,2nd shifting theorem	
Wednesday	13.03.2024	piecewise continuous function and based examples	ch-9 Central orbits basic concepts
Thursday	14.03.2024	laplace transformation derivatives and effect of multiplication and division in finding laplace transformation	areal velocity,elliptic orbit,hyperbolic orbit
Friday	15.03.2024		parabolic orbit,velocity in a circle
Saturday	16.03.2024		other theorems and based examples
Monday	18.03.2024	examples of effect of multiplication and division	
Tuesday	19.03.2024	laplace transformation of integral and based examples	
Wednesday	20.03.2024	to find the laplace transformation of integral	articals of ex-9.2 and examples
Thursday	21.03.2024	to find thee laplace transformation of some important functions	remaining examples
Friday	22.03.2024		test
23.03.2024 to 31.03.2024		Holi Vacations	
Monday	01.04.2024	ch-6 inverse laplace transformation and it's formula's and based examples	
Tuesday	02.04.2024	other method to find inverse transform and based examples	
Wednesday	03.04.2024	convolution theorem and it's questions	ch-10 Kepler's law of planetary motion basic concept
Thursday	04.04.2024	test	some important theorems and based examples
Friday	05.04.2024		remaining examples
Saturday	06.04.2024		test
Monday	08.04.2024	ch-7 application of laplace transformation to integral equation and based examples	
Tuesday	09.04.2024	based examples	
Wednesday	10.04.2024	ch-8 solution of linear differential equation and it's examples	ch-11 Motion of a particle in 3D Basic concept
Thursday	11.04.2024	Id-Ul-Fitr	
Friday	12.04.2024		articals of ch-11
Saturday	13.04.2024	Vaisakhi/Chhath Puja	
Monday	15.04.2024	solution of O.D.E with variable coefficient and it's examples	
Tuesday	16.04.2024	test	
Wednesday	17.04.2024	Ram Navami	
Thursday	18.04.2024	ch-9 fourier transform and based properties and examples	examples of ch-11
Friday	19.04.2024		remaining examples
Saturday	20.04.2024		test
Monday	22.04.2024	convolution theorem for fourier transform,parseval's identity,finite sine and cosine transform and based examples	
Tuesday	23.04.2024	ch-10 method to solve wave and heat equation	

Day	Date	Class:-B.Sc+B.A 2nd year	Class:-B.Sc+B.A 3rd year
		Semester:-4th(special function and integral transform)	Semester:-6th(Dynamics)
Wednesday	24.04.2024	examples of solution of wave equation,examples of heat equation	revision
Thursday	25.04.2024	revision	revision
Friday	26.04.2024		test
Saturday	27.04.2024		doubts session
Monday	29.04.2024	revision	
Tuesday	30.04.2024	full length test	

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Even Semester)

Session 2023-24 (01.01.2024 to 30.04.2024)

Name of Teacher: Ms. SHWETA

Subject : Mathematics

Day	Date	Class: [Bsc(NM+CSc)&B.A] IInd year	Class: [Bsc(NM+CSc)&B.A] IIIrd year
		Semester: 4[Sequence &Series]	Semester: 6[Linear Algebra]
Monday	01.01.2024		
Tuesday	02.01.2024		
Wednesday	03.01.2024	Basic knowledge of number and sets	
Thursday	04.01.2024	Ch-1 topology of real, Intro of sets and L.u.b and g.l.b	
Friday	05.01.2024	Archimedean property of reals	Introduction of ch-1 vector space and subspace
Saturday	06.01.2024	Based Examples	Theorems and Examples of Vector space
Monday	08.01.2024		Subspace and based examples
Tuesday	09.01.2024		
Wednesday	10.01.2024	Neighborhood of a point, based examples	
Thursday	11.01.2024	Open set based examples and theorems	
Friday	12.01.2024	Closed set based theorems and examples	Linear and Direct sum based theorems and examples
Saturday	13.01.2024	Limit point, closure of set based examples and theorems	Remaining examples of ch-1
Monday	15.01.2024		Ch-2 Introduction of basis and dimensions
Tuesday	16.01.2024		
Wednesday	17.01.2024	Shri Guru Gobind Singh Ji Jayanti	
Thursday	18.01.2024	Doubts	
Friday	19.01.2024	Compacy set, Cover and open cover	L.I and L.D based theroems and examples
Saturday	20.01.2024	Heine borel property and based theorems	Generated vector space based theorems amd examples
Monday	22.01.2024		Existence theorem and some examples
Tuesday	23.01.2024		
Wednesday	24.01.2024	Ch-2 introduction of sequence	
Thursday	25.01.2024	Constant seq, LUB and GLB of a sequence	
Friday	26.01.2024	Republic Day	
Saturday	27.01.2024	Based theorems and examples	Dimensipn of Linear Sum, direct sum, Quotient space based theorems and
Monday	29.01.2024		Doubts and Test of ch-1
Tuesday	30.01.2024		
Wednesday	31.01.2024	Divergent and oscillating sequence and based examples	

Day	Date	Class: [Bsc(NM+CSc)&B.A] II nd year	Class: [Bsc(NM+CSc)&B.A] III rd year
		Semester: 4[Sequence & Series]	Semester: 6[Linear Algebra]
Thursday	01.02.2024	Some basic theorems on limits and based examples	
Friday	02.02.2024	Test ch-1	Ch-4 introduction of Linear transformation
Saturday	03.02.2024	Monotonic seq based Examples	Based examples, vector space isomorphism and examples
Monday	05.02.2024		linear Transformation and based examples
Tuesday	06.02.2024		
Wednesday	07.02.2024	Limit point, Bolzano Weierstrass property	
Thursday	08.02.2024	Subsequence and based theorems	
Friday	09.02.2024	Based examples	CH-5 rank and nullity based some theorems
Saturday	10.02.2024	Ch-3 introduction of Infinite series	Fundamental thrm of vector space and Sylvester's Law
Monday	12.02.2024		Doubts and Test of Ch-2+Assignment
Tuesday	13.02.2024		
Wednesday	14.02.2024	Basant Panchmi/Sir Chhotu Ram Jayanti	
Thursday	15.02.2024	Cauchy's General principle of convergence based theorems	
Friday	16.02.2024	Test ch-2	Ch-6 Sum and composition of LT and based examples and theorems
Saturday	17.02.2024	Some examples and theorems of Ch-3	Singular and non Singular transformation based examples
Monday	19.02.2024		Invertible LT based examples and theorems
Tuesday	20.02.2024		
Wednesday	21.02.2024	Ch-4 introduction of infinite series	
Thursday	22.02.2024	D'Alembert ratio test and examples	
Friday	23.02.2024	Cauchy root test and based examples	Doubts and Test of Ch-4
Saturday	24.02.2024	Guru Ravidas Jayanti	
Monday	26.02.2024		Ch-7 Matrix of a LT and based examples
Tuesday	27.02.2024		
Wednesday	28.02.2024	Rabbe's Test and based examples	
Thursday	29.02.2024	Demorgan and Bertrand test and based examples	
Friday	01.03.2024	Gauss test and based examples	Zero transformation and based examples
Saturday	02.03.2024	Assignment	Change of basis theorems and examples
Monday	04.03.2024		Remaining examples and theorems of Ch-7
Tuesday	05.03.2024		
Wednesday	06.03.2024	Cauchy integral and condensation Test based examples	
Thursday	07.03.2024	Doubts	
Friday	08.03.2024	Maha Shivratri	

Day	Date	Class: [Bsc(NM+CSc)&B.A] IIInd year	Class: [Bsc(NM+CSc)&B.A] IIIrd year
		Semester: 4[Sequence &Series]	Semester: 6[Linear Algebra]
Saturday	09.03.2024	Test ch-3	Doubts and Test of Ch-5
Monday	11.03.2024		Ch-8 Dual space definition and some examples
Tuesday	12.03.2024		
Wednesday	13.03.2024	Ch-5 introduction of Alternating series	
Thursday	14.03.2024	Leibnitz test for convergence of alternating series	
Friday	15.03.2024	Theorems based on absolute and conditional series	Based theorems and examples
Saturday	16.03.2024	Based examples	Bidual of a vector space based theorems Annihilator
Monday	18.03.2024		Based examples and Theroems
Tuesday	19.03.2024		
Wednesday	20.03.2024	Doubts and Test ch-4	
Thursday	21.03.2024	Ch-6 introduction of Arbitrary Series	
Friday	22.03.2024	Abel's Lemma and Abel's test	Doubts and test of ch- 7
23.03.2024 to 31.03.2024		Holi Vacations	
Monday	01.04.2024		Ch-9 Eigen value and Eigen vectors definitions and some examples
Tuesday	02.04.2024		
Wednesday	03.04.2024	Dirichlet Test and based examples	
Thursday	04.04.2024	Spme theorems and examples	
Friday	05.04.2024	Multiplication of series and based examples	Some important theorems and based examples
Saturday	06.04.2024	Cauchy's theroem and based examples	Similar matrices based theorems and examples
Monday	08.04.2024		Diagonalisation and minimal polynomial based theorems and
Tuesday	09.04.2024		
Wednesday	10.04.2024	Martin's theoerm and some examples	
Thursday	11.04.2024	Id-UI-Fitr	
Friday	12.04.2024	Doubts and Test ch-5	Doubts and test of Ch-8
Saturday	13.04.2024	Vaisakhi/Chhath Puja	
Monday	15.04.2024		Ch- 10 Inner Product Space , Norm of Vector space and based examples
Tuesday	16.04.2024		
Wednesday	17.04.2024	Ram Navami	
Thursday	18.04.2024	Ch-7 introduction of Infinte Products	
Friday	19.04.2024	Convergence of any infinte product and some exampls	Triangular inequality and based some theorems
Saturday	20.04.2024	Doubts and Test ch-6	Orthogonal Complement some definition and based theorems and
Monday	22.04.2024		Bessel's Inequality and Gram Schmidt inequality and based examples

Day	Date	Class: [Bsc(NM+CSc)&B.A] IIInd	Class: [Bsc(NM+CSc)&B.A] IIIrd
		year	year
		Semester: 4[Sequence &Series]	Semester: 6[Linear Algebra]
Tuesday	23.04.2024		
Wednesday	24.04.2024	Some important examples of Ch-7	
Thursday	25.04.2024	Test ch- 7	
Friday	26.04.2024	Revision of Unit 1st and 2nd	Doubts and Test of Ch-10
Saturday	27.04.2024	Revision of Unit 3rd and 4th	Revision of Unit 1 and 2
Monday	29.04.2024		Revision of Unit 3 and 4
Tuesday	30.04.2024		

