<u>Lesson Plan</u> MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans-Odd Semester (Semester-III) <u>Session – 2023-24</u>

Department: Mathematics

Class: BA/BSc-II Subject: Mathematics Paper-II: Differential equations -|

Name of the Teacher: Ms Promila

Month	Date		Topics to be covered	Academic Activity			
				to be Undertaken			
	From	То					
July	24.07.2023	31.07.2023	Exact Differential equations	Syllabus, Doubt			
				Session.			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson							
plans on 01.08.2023							
August	01.08.2023	31.08.2023	First order and higher degree equations	Syllabus,			
			solvable for x, y,p,Caliraut's form, singular	Examination pattern			
			solution as an envelope of general solutions	discussed, Doubt			
			geometric meaning of a differential equation.	Session.			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson							
plans on 01.09.2023							
September	01.09.2023	30.09.2023	Orthogonal trajectories, Linear differential	Doubt session,			
_			equations with constant coefficients	Assignments,			
				revision of a few			
				topics.			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson							
plans on 03	.10.2023			-			
October	03.10.2023	31.10.2023	Linear differential equations with variable	Doubt session,			
			coefficients -Cauchy and Legendre	Assignments, Power			
			Equations, Linear differential equations of	Point Presentations.			
			second order transformation of the equation				
			by changing the dependent variable/the				
			independent variable				
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson							
plans on 01.11.2023							
November	01.11.2023	18.11.2023	Methods of variation of parameters and	Doubt session,			
			reduction of order, Simultaneous Differential	Assignments, Power			
			equations	Point Presentations,			
			*	Question papers			
				discussed. Revision			
				of a few topics			
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson							
plans on 30.11.2023							
End semester Examination 27.11.2023 to 30.12.2023							

<u>Lesson Plan</u> MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans-Even Semester (Semester-IV) <u>Session – 2023-24</u>

Department: Mathematics

Class: BA/BSc-II Subject: Mathematics Paper-II: Differential equations -II Name of the Teacher: Ms Promila

Month	Date		Topics to be covered	Academic Activity to be Undertaken				
	From	То						
Januarv	09.01.2024	31.01.2024	Series solutions of differential equations -	Svllabus.				
,			Power series method. Bessel and Legendre	Examination pattern				
			Equations. Bessel functions of first and	discussed. Doubt				
			Second kind.Legendre function.Generating	Session.				
			function.					
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans								
on 01.02.2024								
February	01.02.2024	29.02.2024	Recurrence relation and Orthogonality of	Doubt session,				
			Bessel and Legendre function.Partial	Assignments,				
			differential equations: origin of first order	revision of a few				
			partial differential equations, Linear	topics.				
			equation of first order, Integral surface					
			passing through a given curve ,surface					
			orthogonal to a given system of surfaces.					
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans								
on 01.03.2024								
March	01.03.2024	30.03.2024	Inverse Laplace transforms - Linearity	Doubt session,				
			property, shifting properties, change of scale	Assignments, Power				
			property . Inverse Laplace transforms of	Point Presentations.				
			derivatives and integrals ,Convolution					
			theorem , Application of Laplace transforms -					
			solution of differential equations with					
			constant coefficients					
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans								
on 01.04.2024								
April	01.04.2024	22.04.2024	Solution of differential equations with	Doubt session,				
			variable coefficients, solution of	Assignments, Power				
			simultaneous differential equations, Laplace	Point Presentations,				
			transforms - Linearity of the Laplace	Discussion of				
			transformation, Existence theorem for	previous year				
			Laplace transformations , shifting Theorems,	question papers,				
			Laplace transforms of derivatives and	Revision of a few				
			integrals ,Multiplication of t^ π , Division by t	topics.				
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans								
on 22.04.2	024							
End semester Examination 02.05.2024 to 05.06.2024								