Lesson Plan 2018-2019 B. A. (P) (Semester V) DSE-1 Differential Equations

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Teacher: N	1r. Kapil Kumar	Workload: 5 Lectures per week
References:	1. Calculus , H. Anton, Bire	ns and S. Davis, John Wiley and Sons, Inc. 2002.
	2. Differential Equations, S	S.L.Ross, John Wiley and Sons, Third Edition, 1984.
	3. Elements of partial Diffe	rential Equations, I. Sneddon, McGraw-Hill International Editions,
Unit	Week	Topics Covered
1	Week-1	First Order Exact Differential Equation including Rules for finding
	July 23-27, 2018	integrating factors.
	Week-2	First order higher degree equations solvable for x,y,p.
	July 30 - August 3, 2018	
	Week-3	Wronskian and its properties.
	August 6-10, 2018	
	Week-4	Linear homogeneous equations with constant coefficients,
	August 13-17, 2018	
	Week-5	Linear homogeneous equations, Test and Assignment.
	August 20-24, 2018	
	Week-6	The method of variation of parameters.
	August 27-31, 2018	
	Week-7	Euler's equation, Simultaneous Differential Equations.
	September 3-7, 2018	
	Week-8	Total Differential Equations.
	September 10-14, 2018	
2	Week-9	Order and Degree of partial differential equations.
	September 17-21, 2018	
	Week-10	Concept of linear and nonlinear partial differential equations.
	September 24-28, 2018	
	Week-11	Formation of first order partial differentual equations.
	October 1-5, 2018	
	Week-12	Linear partial differential equations of first order.
	October 8-12, 2018	
	Week-13	Lagrange's method, Test and Assignment.
	October 22-26, 2018	
	Week-14	Charpit's method.
	October 29 - November 2,	
	2018	
	Week-15	Classification of second order partial differential equations into ellipt
	November 5-9, 2018	
	Week-16	Final test(if necessary) and Assignment submission.
	November 12-16, 2018	