

Lesson Plan

Name of the Assistant/ Associate Professor.....Sunita Kalra

Class and Section:.....BAT

Subject:.....Ordinary Differential Equations (Mathematics)

Week	Date	Topics
1	1-Jan-18	Vacation
	2-Jan-18	"
	3-Jan-18	"
	4-Jan-18	"
	5-Jan-18	"
	6-Jan-18	"
	7-Jan-18	Sunday
2	8-Jan-18	Differential Equation, Types, Order, Degree
	9-Jan-18	Solution of differential Equation, Formation of Equ
	10-Jan-18	Geometrical Meaning of differential Equ
	11-Jan-18	Exact differential Equations
	12-Jan-18	Solution of Exact differential Equations
	13-Jan-18	Problems on Exact differential Equation
	14-Jan-18	Sunday
3	15-Jan-18	Integrating Factor, its number, integrating factor by
	16-Jan-18	Inspection (Integrating Factor)
	17-Jan-18	Rule 1 to find Integrating Factor
	18-Jan-18	Rule 2 to find integrating factor
	19-Jan-18	Rule 3 to find integrating factor
	20-Jan-18	Rule 4 to find integrating factor
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Rule 5 to find integrating factor
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Equations of First order but not of first degree
	26-Jan-18	Republic Day
	27-Jan-18	Equations solvable for y, for x
	28-Jan-18	Sunday
5	29-Jan-18	Lagrange Equation
	30-Jan-18	Clairaut's Equation
	31-Jan-18	Singular Equation

Lesson Plan

Name of the Assistant/ Associate Professor..... Sunita Kalia

Class and Section:..... BAL

Subject:..... Ordinary Differential Equations

Week	Date	Topics
	1-Feb-18	Orthogonal Trajectory, oblique trajectory
	2-Feb-18	Orthogonal Trajectory in Polar coordinate
	3-Feb-18	Orthogonal Trajectory in Cartesian coordinates
	4-Feb-18	Sunday
6	5-Feb-18	Problems on Orthogonal Trajectory in Polar
	6-Feb-18	Problems on orthogonal trajectory in Cartesian coordinates
	7-Feb-18	Linear differential Equation with constant coefficients
	8-Feb-18	Complete solution of Linear differential Equation
	9-Feb-18	Auxiliary Eqn, problems on solution of linear diff Eqn.
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
7	12-Feb-18	Particular Integral, particular integral in particular cases
	13-Feb-18	Maha Shivratri
	14-Feb-18	Proof of Theo $\frac{1}{F(D)}(e^{ax}V) = e^{ax} \frac{1}{F(D+a)}V$
	15-Feb-18	Problems on the above theorem.
	16-Feb-18	$\frac{1}{F(D)}(xV) = x \frac{1}{F(D)}V + \frac{d}{dx} \left(\frac{1}{F(D)} \right) V$
	17-Feb-18	Problems on the above result
	18-Feb-18	Sunday
8	19-Feb-18	Homogeneous Linear Equation
	20-Feb-18	Problems on Homogeneous Equation
	21-Feb-18	Problems on Homogeneous Equation
	22-Feb-18	Equation Reducible to Homogeneous Function
	23-Feb-18	Problems on above Equation
	24-Feb-18	Miscellaneous Problem on Linear Differential Equations
	25-Feb-18	Sunday
9	26-Feb-18	Problems on linear diff Equation with constant
	27-Feb-18	Problems on particular integral
	28-Feb-18	problems on particular integral

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Name of the Assistant/ Associate Professor..... Sunita Kalsa

Class and Section:..... B.AE

Subject:..... Ordinary differential Equations

Week	Date	Topics
	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Linear differential Equations of Second order
	4-Mar-18	Sunday
10	5-Mar-18	Solution of Linear differential Equation
	6-Mar-18	By changing independent variable
	7-Mar-18	For finding Particular integral of $\frac{d^2y}{dx^2} + P\frac{dy}{dx} + Qy = 0$
	8-Mar-18	Problems on Linear differential Equations of second order
	9-Mar-18	Linear differential Equations solution by removing First derivative
	10-Mar-18	Problems on above method.
	11-Mar-18	Sunday
11	12-Mar-18	Solution of Linear differential Equation by changing variable
	13-Mar-18	Problems on above method
	14-Mar-18	Variation of Parameters
	15-Mar-18	Problems on Variation of parameters
	16-Mar-18	Problems on variation of parameters
	17-Mar-18	Method of undetermined coefficients
	18-Mar-18	Sunday
12	19-Mar-18	Method when no term of $\phi(x)$ occur in C.F
	20-Mar-18	When no term of R.H.S occurs in C.F
	21-Mar-18	Problems on above method
	22-Mar-18	When no term of R.H.S occur in C.F
	23-Mar-18	Problems on above method
	24-Mar-18	Problems on above method
	25-Mar-18	Sunday/ Ram Navami
13	26-Mar-18	Problems on changing independent variable
	27-Mar-18	Problems which involve removal of First derivative
	28-Mar-18	Problems on variation of parameters
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Miscellaneous problems on Linear Diff. Equations
	31-Mar-18	Miscellaneous problems on Linear Diff. Equations

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Name of the Assistant/ Associate Professor.....

Class and Section:.....

Subject:.....

Week	Date	Topics
14		Sunday
	1-Apr-18	
	2-Apr-18	Ordinary Simultaneous Differential Equations
	3-Apr-18	" " "
	4-Apr-18	Solution of simultaneous differential Equation
	5-Apr-18	" " " "
	6-Apr-18	" " " "
	7-Apr-18	" " " "
15	8-Apr-18	Sunday
	9-Apr-18	Total differential Equation
	10-Apr-18	" " "
	11-Apr-18	Solution of total differential Equation
	12-Apr-18	" " " "
	13-Apr-18	" " " "
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
16	15-Apr-18	Sunday
	16-Apr-18	Revision of the syllabus
	17-Apr-18	Revision of the syllabus
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Revision of the syllabus
	20-Apr-18	" " "
	21-Apr-18	" " " "
17	22-Apr-18	Sunday
	23-Apr-18	Test of whole syllabus
	24-Apr-18	" " "
	25-Apr-18	" " " "
	26-Apr-18	" " " "
	27-Apr-18	" " " "
	28-Apr-18	" " " "