

SUMMARY OF LESSON PLAN

Name of the Assistant/ Associate Professor : **Deepak**
Class and Section : **B.sc-I**
Subject Lesson Plan : **Ordinary differential
equation (mathematics)**
Month : **January 2018**

Date	Topics
01-01-2018	Introduction to differential equations
02-01-2018	Differential equation, types of differential equation
03-01-2018	Solution and formation of differential equation
04-01-2018	Exact differential equation & theorem on exactness
05-01-2018	GURU GOVIND SINGH JAYANTI
06-01-2018	Example based on exact differential equation
07-01-2018	SUNDAY
08-01-2018	Integrating factor, Integrating factor by inspection
09-01-2018	Rules for finding the integrating factor
10-01-2018	Rules for finding the integrating factor
11-01-2018	Problem based on integrating factor
12-01-2018	Introduction of first order equation but not of first order
13-01-2018	Equation solvable for $p=dy/dx$
14-01-2018	SUNDAY
15-01-2018	Equation solvable for y

16-01-2018	Equation solvable for x
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Month : January 2018

Date	Particulars
17-01-2018	Lagrange's equation
18-01-2018	Claimant's equation
19-01-2018	Equation reducible to claimant's form
20-01-2018	Singular solution
21-01-2018	SUNDAY
22-01-2018	VASANT PANCHAMI
23-01-2018	Class test / Assignment given
24-01-2018	SIR CHOTU RAM JAYANTI
25-01-2018	Trajectories
26-01-2018	REPUBLIC DAY
27-01-2018	Orthogonal trajectories in polar Co-ordinates
28-01-2018	SUNDAY
29-01-2018	Orthogonal trajectories in Cartesian co-ordinates
30-01-2018	Linear differential equation with constant co-efficient
31-01-2018	GURU RAVIDAS BIRTHDAY

Month

: February 2018

Date	Topics
01-02-2018	Complete solution of the linear differential equation
02-02-2018	Auxiliary equation (A.E)
03-02-2018	Solution of the differential equation
04-02-2018	SUNDAY
05-02-2018	Complementary function and particular integral
06-02-2018	Theorem based on operator D
07-02-2018	Particular integral in some special cases
08-02-2018	Solution of the differential equation
09-02-2018	Solution of the differential equation
10-02-2018	MAHARSHI DAYANAND SARASWATI JAYANTI
11-02-2018	SUNDAY
12-02-2018	Solution of the differential equation
13-02-2018	MAHA SHIVRATRI
14-02-2018	Solution of the differential equation
15-02-2018	Class test / Assignment given
16-02-2018	Homogeneous linear equations

Month

: February 2018

Date	Particulars
17-02-2018	Solution of homogeneous linear equation
18-02-2018	SUNDAY
19-02-2018	Solution of homogeneous linear equation
20-02-2018	Equation reducible to homogeneous linear form
21-02-2018	Solution of differential equation
22-02-2018	Problem based on homogeneous linear equation
23-02-2018	Class test
24-02-2018	Class test
25-02-2018	SUNDAY
26-02-2018	Linear differential equation of second order
27-02-2018	Method for finding the particular integral of $d^2y/dx^2+pd y/dx+xy=0$
28-02-2018	VACATION

Month : March 2018

Date	Topics
01-03-2018	GURU RAVIDAS BIRTHDAY
02-03-2018	HOLI
03-03-2018	VACATION
04-03-2018	SUNDAY
05-03-2018	Solution of the differential equation
06-03-2018	Solution of the differential equation
07-03-2018	Solution of the differential equation of second order
08-03-2018	by removing first derivative & changing the
09-03-2018	Dependent variable
10-03-2018	Solution of the equation by removing first derivative
11-03-2018	SUNDAY
12-03-2018	Solution of the equation by changing the
13-03-2018	Dependent variable
14-03-2018	Solution of the differential equation by changing the
15-03-2018	independent variable
16-03-2018	Solution of the differential equation by variation of parameter

Month : March 2018

Date	Particulars
17-03-2018	Solution by the method variation of parameter
18-03-2018	SUNDAY
19-03-2018	Solution of the method of undetermined coefficients
20-03-2018	Solution of the differential equation
21-03-2018	Class test
22-03-2018	Class test
23-03-2018	<u>SHAHEEDI DIWAS OF BHAGAT SINGH, RAJGURU & SUKHDEV</u>
24-03-2018	Ordinary Simultaneous differential equations
25-03-2018	SUNDAY/ RAM NAVMI
26-03-2018	Solution of Simultaneous differential equations
27-03-2018	Involving operator $x(d/dx)$ or $t(d/dt)$
28-03-2018	Example related to Simultaneous differential equations
29-03-2018	MAHAVIR JAYANTI
30-03-2018	Good Friday
31-03-2018	Simultaneous equation of form $dx/p=dy/q=dz/r$

Month : **April 2018**

Date	Topics
01-04-2018	SUNDAY
02-04-2018	Second integral found with the help of the first
03-04-2018	Class test / Assignment given
04-04-2018	Total differential equation
05-04-2018	Condition for $pdx+sdz+rdz=0$ be exact
06-04-2018	Solution of the differential equation
07-04-2018	Method of solving total differential equation
08-04-2018	SUNDAY
09-04-2018	General method of solving $pdx+sdz+rdz=0$
10-04-2018	By taking one variable constant
11-04-2018	Method of Auxiliary equations
12-04-2018	Method of solving homogeneous equations
13-04-2018	Formation of auxiliary equation
14-04-2018	<u>DR AMBEDKAR JAYANTI / VAISAKHI</u>
15-04-2018	SUNDAY
16-04-2018	Class test

Month

: April 2018

Date	Particulars
17-04-2018	Class test
18-04-2018	<u>PARASHURAMA JAYANTI</u>
19-04-2018	Revision
20-04-2018	Revision
21-04-2018	Class test
22-04-2018	SUNDAY
23-04-2018	
24-04-2018	
25-04-2018	
26-04-2018	
27-04-2018	
28-04-2018	
29-04-2018	
30-04-2018	