

SUMMARY OF LESSON PLAN

Name of the Assistant/ Associate Professor : **Deepak**
Class and Section : **B.sc II**
Subject Lesson Plan : **Special fun & int transf**
Month : **January 2018**

Date	Topics
01-01-2018	Power series, convergence, operation of power series
02-01-2018	Interval of convergence, operation on power series
03-01-2018	Ordinary and singular points of differential equation
04-01-2018	Existence of power series solution
05-01-2018	GURU GOVIND SINGH JAYANTI
06-01-2018	Example based on power series
07-01-2018	SUNDAY
08-01-2018	Fresenius method
09-01-2018	Solution of the differential equation in power series
10-01-2018	Solution of the differential equation in power series
11-01-2018	Series Solution of the differential equation
12-01-2018	Series Solution of the differential equation
13-01-2018	Example based on series solution
14-01-2018	SUNDAY
15-01-2018	Definition of beta function and gamma function
16-01-2018	Bessel's equation and its solution

Month

: January 2018

Date	Particulars
17-01-2018	Bessel's equation of 1 st kind of order n
18-01-2018	Bessel's equation of second kind of order n
19-01-2018	Deduction of Bessel's equation $J_0(x)$, $J_1(x)$, $J_{1/2}(x)$
20-01-2018	And $J_{-1/2}(x)$ in the form of the series
21-01-2018	SUNDAY
22-01-2018	VASANT PANCHAMI
23-01-2018	Recurrence relations for Bessel's equation
24-01-2018	SIR CHOTU RAM JAYANTI
25-01-2018	Example based on Bessel's equation & recurrence formula
26-01-2018	REPUBLIC DAY
27-01-2018	Generated function for $J_n(x)$
28-01-2018	SUNDAY
29-01-2018	Representation of $J_n(x)$ in integral
30-01-2018	Equation reducible to Bessel's equation
31-01-2018	GURU RAVIDAS BIRTHDAY

Month

: February 2018

Date	Topics
01-02-2018	Reduction of two standard equation
02-02-2018	Orthogonality relation of Bessel's function
03-02-2018	Class test / Assignment given
04-02-2018	SUNDAY
05-02-2018	Legendre's equation and solution of Legendre's equation
06-02-2018	Legendre's polynomial Rodriguez's formula
07-02-2018	Derivation of Legendre's polynomial from Rodriguez's formula
08-02-2018	Generated function for $p_n(x)$
09-02-2018	Examples related to Legendre's polynomial
10-02-2018	MAHARSHI DAYANAND SARASWATI JAYANTI
11-02-2018	SUNDAY
12-02-2018	Recurrence relation
13-02-2018	MAHA SHIVRATRI
14-02-2018	Orthogonality of Legendre's polynomial
15-02-2018	Example based on orthogonality
16-02-2018	Hermit's equation & its solution

Month : February 2018

Date	Particulars
17-02-2018	Hermit's polynomial
18-02-2018	SUNDAY
19-02-2018	Hermit's polynomial for some values of n
20-02-2018	Generating function for Hermit's polynomial
21-02-2018	Rodriguez's formula for $G_n(x)$
22-02-2018	Recurrence relation
23-02-2018	Examples related to Hermit's equation
24-02-2018	Orthonality property of Hermit's polynomial
25-02-2018	SUNDAY
26-02-2018	Class test
27-02-2018	Laplace transformation, Laplace transform of some elementary function
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	Example of Laplace transform
06-03-2018	Shifting property and some standard result obtained by shifting property
07-03-2018	Sufficient condition for the existence of Laplace transform
08-03-2018	Second shifting property and example
09-03-2018	Laplace transform of derivatives
10-03-2018	Laplace transform of integrals
11-03-2018	SUNDAY
12-03-2018	Laplace transform of some important function
13-03-2018	Inverse Laplace transform
14-03-2018	Example based on inverse Laplace transform of function
15-03-2018	Convolution theorem
16-03-2018	Application of Laplace transformation to integral equation

Month : March 2018

Date	Particulars
17-03-2018	Solution of difference equation using Laplace transform
18-03-2018	SUNDAY
19-03-2018	Class test / Assignment given
20-03-2018	Solution of difference equation with constant coefficient
21-03-2018	Variable coefficient, by transform method
22-03-2018	Solution of simultaneous linear equation by transform method
23-03-2018	<u>SHAHEEDI DIWAS OF BHAGAT SINGH, RAJGURU & SUKHDEV</u>
24-03-2018	Fourier transform of sine or cosine function
25-03-2018	SUNDAY/ RAM NAVMI
26-03-2018	Property of Fourier transforms
27-03-2018	Change of scale property, shifting property
28-03-2018	Some examples based on Fourier transforms
29-03-2018	MAHAVIR JAYANTI
30-03-2018	GOOD FRIDAY
31-03-2018	Some examples based on Fourier sine and cosine transform

Month : April 2018

Date	Topics
01-04-2018	SUNDAY
02-04-2018	Some example based on the use of inverse transform
03-04-2018	Convolution theorem for Fourier transform
04-04-2018	Fourier transform of the derivative
05-04-2018	Parseval's identity for Fourier transform
06-04-2018	Finite sine and cosine transform of P(x)
07-04-2018	Solution of the differential equation using Fourier transforms
08-04-2018	SUNDAY
09-04-2018	Class test
10-04-2018	Revision
11-04-2018	Revision
12-04-2018	Class test
13-04-2018	
14-04-2018	<u>DR AMBEDKAR JAYANTI / VAISAKHI</u>
15-04-2018	SUNDAY
16-04-2018	

Month : April 2018

Date	Particulars
17-04-2018	
18-04-2018	<u>PARASHURAMA JAYANTI</u>
19-04-2018	
20-04-2018	
21-04-2018	
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	