

Name: **Dr. Vandana Gupta**
 Class and Section: **B.A. /B.Sc IVth Sem**
 Subject: **Special functions and integral transforms/Programming in C & numerical methods**

Week	Date	Topic
1	1-Jan-18	Series solution of differential equations – Power series method
	2-Jan-18	-do-
	3-Jan-18	Definitions of Beta and Gamma functions.
	4-Jan-18	-do-
	5-Jan-18	Guru Gobind Singh Jayanati
	6-Jan-18	-do-
	7-Jan-18	Sunday
2	8-Jan-18	Bessel equation and its solution: Bessel functions and their properties, Convergence, recurrence
	9-Jan-18	-do-
	10-Jan-18	-do-
	11-Jan-18	-do-
	12-Jan-18	Clairaut's equations
	13-Jan-18	-do-
	14-Jan-18	Sunday
3	15-Jan-18	Relations and generating functions, Orthogonality of Bessel functions.
	16-Jan-18	-do-
	17-Jan-18	-do-
	18-Jan-18	-do-
	19-Jan-18	-do-
	20-Jan-18	-do-
	21-Jan-18	Sunday
4	22-Jan-18	Basant Panchami
	23-Jan-18	Legendre and Hermite differentials equations and their solutions: Legendre and Hermite functions and their properties-Recurrence Relations and generating functions.
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	-do-
	26-Jan-18	Republic Day
	27-Jan-18	-do-
	28-Jan-18	Sunday
5	29-Jan-18	-do-
	30-Jan-18	-do-
	31-Jan-18	Guru Ravidas Jayanti

Week	Date	Topic
1	1-Feb-18	Orthogonality of Legendre and Hermite polynomials.
	2-Feb-18	-do-
	3-Feb-18	-do-
	4-Feb-18	Sunday
2	5-Feb-18	Rodrigues' Formula for Legendre & Hermite Polynomials
	6-Feb-18	-do-
	7-Feb-18	-do-
	8-Feb-18	-do-
	9-Feb-18	-do-
	10-Feb-18	Maharishi Dayanand Sarswati Jayanti

	11-Feb-18	Sunday
3	12-Feb-18	Laplace Integral Representation of Legendre polynomial.
	13-Feb-18	Mahashivratri
	14-Feb-18	-do-
	15-Feb-18	Laplace Transforms – Existence theorem for Laplace transforms, Linearity of the Laplace transforms, Shifting theorems, Laplace transforms of derivatives and integrals,
	16-Feb-18	-do-
	17-Feb-18	Differentiation and integration of Laplace transforms, Convolution theorem
	18-Feb-18	Sunday
4	19-Feb-18	-do-
	20-Feb-18	Inverse Laplace transforms, convolution theorem, Inverse Laplace transforms of derivatives and integrals
	21-Feb-18	-do-
	22-Feb-18	Solution of ordinary differential equations using Laplace transform
	23-Feb-18	-do-
	24-Feb-18	-do-
	25-Feb-18	Sunday
5		Fourier transforms: Linearity property, Shifting, Modulation, Convolution Theorem
	26-Feb-18	-do-
	28-Feb-18	University Holidays

Week	Date	Topic
1	1-Mar-18	University Holidays
	2-Mar-18	University Holidays
	3-Mar-18	University Holidays
	4-Mar-18	University Holidays/Sunday
2	5-Mar-18	Fourier Transform of Derivatives, Relations between Fourier transform and Laplace transform
	6-Mar-18	-do-
	7-Mar-18	Parseval's identity for Fourier transforms
	8-Mar-18	-do-
	9-Mar-18	Sessional
	10-Mar-18	-do-
	11-Mar-18	Sunday
3	12-Mar-18	Solution of differential Equations using Fourier Transforms.
	13-Mar-18	-do-
	14-Mar-18	-do-
	15-Mar-18	-do-
	16-Mar-18	-do-
	17-Mar-18	-do-
	18-Mar-18	Sunday

		Programmer's model of a computer, Algorithms, Flow charts
4	19-Mar-18	-do-
	20-Mar-18	-do-
	21-Mar-18	-do-
	22-Mar-18	-do-
	23-Mar-18	Shahidi diwas of Bhagat Singh
	24-Mar-18	-do-
	25-Mar-18	Sunday
5	26-Mar-18	Data types, Operators and expressions
	27-Mar-18	-do-
	28-Mar-18	-do-
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	-do-
	31-Mar-18	-do-

Week	Date	Topic
	1-Apr-18	Sunday
	2-Apr-18	Input / outputs functions.
	3-Apr-18	-do-
	4-Apr-18	-do-
	5-Apr-18	-do-
	6-Apr-18	-do-
	7-Apr-18	-do-
	8-Apr-18	Sunday
2	9-Apr-18	Decisions control structure: Decision statements, Logical and conditional statements
	10-Apr-18	-do-
	11-Apr-18	-do-
	12-Apr-18	-do-
		-do-
	13-Apr-18	
	14-Apr-18	Dr. Amdedkar Jayanti and Vaisakhi
3	15-Apr-18	Sunday
	16-Apr-18	-do-
	17-Apr-18	-do-
	18-Apr-18	Parshuram Jayanti
	19-Apr-18	Implementation of Loops, Switch Statement & Case control structures
	20-Apr-18	-do-
	21-Apr-18	-do-
4	22-Apr-18	Sunday
	23-Apr-18	-do-
	24-Apr-18	-do-
	25-Apr-18	. Functions, Preprocessors and Arrays.

	26-Apr-18	-do-
	27-Apr-18	-do-
	28-Apr-18	-do-