

G.M.N. COLLEGE, AMBALA CANTT

LESSON PLAN FOR THE SESSION 2018-19 (EVEN SEMESTER)

CLASS-BSC IV SEMESTER	
SUBJECT/PAPER NAME-SPECIAL FUNCTIONS & INTEGRAL TRANSFORMS	
NAME OF THE TEACHER-PROF. PINKI	
02.01.2019	Power series
04.01.2019	Convergence of Power series
08.01.2019	Related Problems
09.01.2019	Operation on power series
10.01.2019	Solved examples
11.01.2019	Analytic function
12.01.2019	Problems of exercises
15.01.2019	Frobenius Method
16.01.2019	Related problems
17.01.2019	Misc. examples
18.01.2019	Beta function
19.01.2019	Properties of beta function
21.01.2019	Gamma function
22.01.2019	Bessel's function
23.01.2019	Solution of Bessel's equation
24.01.2019	Results based on Bessel's function
25.01.2019	Recurrence relations for Bessel's function
26.01.2019	Republic Day
28.01.2019	Generating function for Bessel's function
29.01.2019	Equation reducible to Bessel's equation
30.01.2019	Related problems
31.01.2019	Orthogonality relation for Bessel's function
01.02.2019	Doubts related to Bessel's function
02.02.2019	Group discussion
04.02.2019	Class Test
05.02.2019	Legendre equation
06.02.2019	Rodrigue's formula
07.02.2019	Derivation of Legendre's polynomial from Rodrigue's Formula
08.02.2019	Related problems
09.02.2019	Recurrence formula
11.02.2019	Orthogonality of Legendre Polynomial
12.02.2019	Laplace integral representation of Legendre

	polynomial
13.02.2019	Related Problems
14.02.2019	Hermite's equation
15.02.2019	Solution of Hermite equation
16.02.2019	Hermite polynomial
18.02.2019	Generating function for Hermite's polynomial
19.02.2019	Guru RaviDass Jayanti
20.02.2019	Derivation of Hermite's polynomials from Rodrigue's Formula
21.02.2019	Recurrence formula
22.02.2019	Related problems
23.02.2019	Orthogonal property of Hermite's polynomial
25.02.2019	Related problems
26.02.2019	Group discussion
27.02.2019	Class Test
28.02.2019	Laplace Transformation
01.03.2019	Linear property of Laplace Transform
02.03.2019	Problems
04.03.2019	MAHA SHIVRATRI
05.03.2019	Change of scale property
06.03.2019	Piece-wise continuity of a function in an interval
07.03.2019	Function of exponential order
08.03.2019	Related theorems
09.03.2019	First shifting theorem
11.03.2019	Laplace transforms of derivatives
12.03.2019	Effect of division of $f(t)$ by t in finding Laplace transforms
13.03.2019	Related Problems
14.03.2019	Laplace Transform of a periodic function
15.03.2019	Laplace transforms of integrals
16.03.2019	Related problems
18.03.2019	HOLI BREAK
19.03.2019	
20.03.2019	
21.03.2019	
22.03.2019	
23.03.2019	
25.03.2019	
26.03.2019	Inverse Laplace transforms
27.03.2019	Related problems
28.03.2019	Methods of finding inverse Laplace transforms
29.03.2019	Convolution Theorem
31.03.2019	Use of Laplace Transforms in integral equations
01.04.2019	Related problems

02.04.2019	Solutions of differential equation by Laplace transforms
03.04.2019	Related problems
04.04.2019	Exercises problems
05.04.2019	Class Test
06.04.2019	Fourier transforms
07.04.2019	Properties of Fourier transforms
08.04.2019	Related problems
09.04.2019	Relation between Fourier & Laplace transforms
10.04.2019	Solution of DE by Fourier Transforms
11.04.2019	Related problems
12.04.2019	Revision
13.04.2019	Ram navmi
15.04.2019	Class Test

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LESSON PLAN FOR THE SESSION 2018-19 (EVEN SEMESTER)

CLASS-BSC II SEMESTER SUBJECT/PAPER NAME-NUMBER THEORY & TRIGONOMETRY NAME OF THE TEACHER-PROF. PINKI	
02.01.2019	The principle of mathematical introduction
04.01.2019	Divisibility
08.01.2019	Theorems of divisibility
09.01.2019	Related problems
10.01.2019	Division algorithm
11.01.2019	Gcd & lcm
12.01.2019	Theorems based on gcd & lcm
15.01.2019	Related problems
16.01.2019	Some important definitions
17.01.2019	Theorems based on prime numbers
18.01.2019	Euclid's Theorems
19.01.2019	Fundamental theorem of arithmetic
21.01.2019	Canonical form
22.01.2019	Moduli & congruences
23.01.2019	Theorems on congruences
24.01.2019	Linear congruence & related theorems
25.01.2019	Linear Diophantine equations
26.01.2019	Republic day
28.01.2019	Related examples & numerical
29.01.2019	Fermat's theorem
30.01.2019	Wilson's theorem
31.01.2019	Chinese remainder theorem
01.02.2019	Euler's function
02.02.2019	Theorems on Euler's function
04.02.2019	Residues
05.02.2019	Complete residue system
06.02.2019	Reduced residue system
07.02.2019	Euler's generalization of Fermat's theorem
08.02.2019	Greatest integer function
09.02.2019	Some theorem on greatest function
11.02.2019	De polignac's formula
12.02.2019	Arithmetic functions
13.02.2019	Sigma function of n
14.02.2019	Related problems
15.02.2019	The mobius function
16.02.2019	Mobius inversion formula
18.02.2019	Converse of mobius inversion formula
19.02.2019	Guru RaviDass Jayanti
20.02.2019	Class test

21.02.2019	Quadratic congruence
22.02.2019	Quadratic residues
23.02.2019	Related theorems
25.02.2019	Euler's criterion
26.02.2019	Legendre symbol
27.02.2019	Properties of legendre symbol
28.02.2019	Gauss lemma
01.03.2019	Related numerical
02.03.2019	Gauss reciprocity law
04.03.2019	MAHA SHIVRATRI
05.03.2019	Group discussion
06.03.2019	De moivre's theorem
07.03.2019	Roots of a complex number
08.03.2019	Solutions of equations
09.03.2019	Related problems
11.03.2019	Related results
12.03.2019	Class test
13.03.2019	Exponential function of a complex variable
14.03.2019	Properties of complex functions
15.03.2019	Related problems
16.03.2019	Circular functions of complex variables
18.03.2019	HOLI BREAK
19.03.2019	
20.03.2019	
21.03.2019	
22.03.2019	
23.03.2019	
25.03.2019	
26.03.2019	Euler's theorem
27.03.2019	Periodicity of circular functions
28.03.2019	Related problems
29.03.2019	Class test
30.03.2019	Hyperbolic functions
01.04.2019	Relation between hyperbolic & circular function
02.04.2019	Formulae of hyperbolic functions
03.04.2019	Related problems
04.04.2019	Logarithm of a complex quantity
05.04.2019	Law of logarithms for complex numbers
06.04.2019	Inverse circular functions
08.04.2019	Inverse hyperbolic functions
09.04.2019	Gregory series
10.04.2019	Summation of series
11.04.2019	Method of differences
12.04.2019	Some important results & related problems
13.04.2019	Ram navmi

15.04.2019

Revision