



Aggarwal College Ballabgarh

LESSON PLAN 17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Neha Goel
Designation/ Department: Assistant Professor (Mathematics)

CLASS: Msc Mathematics	SEMESTER: 2 nd	SECTION: A
------------------------	---------------------------	------------

SUBJECT: Advanced Complex Analysis

Week		
1	7-1-2025	.....
	8-1-2025	.....
	9-1-2025	.....
	10-1-2025	Integral functions
	11-1-2025	Factorization of integral functions
	12-1-2025	S. U. N. D. A. Y.
2	13-1-2025	Weierstrass primary factors
	14-1-2025	Weierstrass factorization theorem
	15-1-2025	.....
	16-1-2025	.....
	17-1-2025	Gamma function and its properties
	18-1-2025	Contd..
	19-1-2025	S. U. N. D. A. Y.
3	20-1-2025	Stirling formula
	21-1-2025	Integral version of gamma function
	22-1-2025	.....

	23-1-2025	.....
	24-1-2025	Riemann zeta function
	25-1-2025	Riemann functional equation
	26-1-2025	REPUBLIC DAY /S. U. N. D. A. Y.
4	27-1-2025	Mittag leffer theorem
	28-1-2025	Contd..
	29-1-2025	.....
	30-1-2025	.....
	31-1-2025	Runga theorem
	1-2-2025	Assignment
	2-2-2025	S. U. N. D. A. Y/BASANT PANCHAMI
5	3-2-2025	Class test
	4-2-2025	Analytic continuation
	5-2-2025	.....
	6-2-2025	.....
	7-2-2025	Natural boundary
	8-2-2025	Uniqueness of direct analytic continuation
	9-2-2025	S. U. N. D. A. Y
6	10-2-2025	Uniqueness of analytic continuation along a curve
	11-2-2025	Power series method of analytic continuation
	12-2-2025	HOLIDAY: GURU RAVIDAS JAYANTI
	13-2-2025	.....
	14-2-2025	Schwarz reflexion principle
	15-2-2025	Germ of an analytic function

	16-2-2025	S. U. N. D. A. Y.
7	17-2-2025	Monodromy theorem and its consequences
	18-2-2025	Harmonic function on a disc
	19-2-2025	.....
	20-2-2025	.....
	21-2-2025	Contd.
	22-2-2025	Poison kernel
	23-2-2025	S. U. N. D. A. Y.
8	24-2-2025	Contd...
	25-2-2025	Dirichlet problem for a section disc
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	.....
	28-2-2025	Assignment
	1-3-2025	Class test
	2-3-2025	S. U. N. D. A. Y.
9	3-3-2025	Harnack inequality
	4-3-2025	Harnack theorem
	5-3-2025	.....
	6-3-2025	.....
	7-3-2025	Dirichlet region
	8-3-2025	Green function
	9-3-2025	S. U. N. D. A. Y.
10	10-3-2025	HOLI BREAK
	11-3-2025	HOLI BREAK

	12-3-2025	HOLI BREAK
	13-3-2025	HOLI BREAK
	14-3-2025	HOLI BREAK
	15-3-2025	HOLI BREAK
	16-03-2025	S. U. N. D. A. Y.
11	17-3-2025	Canonical product
	18-3-2025	Jensen formula
	19-3-2025	.....
	20-3-2025	.....
	21-3-2025	Poisson Jensen formula
	22-3-2025	Hadamard three circle theorem
	23-3-2025	S. U. N. D. A. Y.
12	24-3-2025	Growth and order of an entire function
	25-3-2025	An estimate of number of zeros
	26-3-2025	.....
	27-3-2025	.....
	28-3-2025	Exponent of convergence
	29-3-2025	Borel theorem
	30-3-2025	S. U. N. D. A. Y.
13	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	Hadamard factorization theorem
	2-4-2025	.....
	3-4-2025	.....
	4-4-2025	Assignment

	5-4-2025	Class test
	6-4-2025	S. U. N. D. A. Y.
14	7-4-2025	The range of an analytic function
	8-4-2025	Contd..
	9-4-2025	.....
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	Bloch theorem
	12-4-2025	Schottky theorem
	13-4-2025	S. U. N. D. A. Y.
15	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	Little picard theorem
	16-4-2025	.....
	17-4-2025	.....
	18-4-2025	Monte caratheodory theorem
	19-4-2025	Contd..
	20-4-2025	S. U. N. D. A. Y.
16	21-4-2025	Great picard theorem
	22-4-2025	Contd...
	23-4-2025	.....
	24-4-2025	.....
	25-4-2025	Univalent functions
	26-4-2025	Bieberbach conjecture and $\frac{1}{4}$ theorem
	27-4-2025	S. U. N. D. A. Y.
	28-4-2025	Assignment

17	29-4-2025	Group discussion
	30-4-2025	HOLIDAY: AKSHAY TRITYA
	01-05-2025	.....
	02-05-2025	Discussion of previous year question papers
	03-05-2025	Discussion of previous year question papers
	04-05-2025	S. U. N. D. A. Y.

Signature