



Aggarwal College Ballabgarh

LESSON PLAN

17 WEEKS (JAN-APRIL)-2025

Name of Faculty: DR.GEETA TRIPATHI

Position/ Department: ASSISTANT PROFESSOR/MATHEMATICS

CLASS: B.Sc. Maths (Hons.)

SEMESTER: 2nd

SECTION:

SUBJECT: Number Theory and Trigonometry

Week		
1	7-1-2025	NO CLASS
	8-1-2025	Introduction to the Subject
	9-1-2025	About Divisibility, G.C.D.(greatest common divisors), L.C.M.(least common multiple)
	10-1-2025	About Primes, Fundamental Theorem of Arithmetic
	11-1-2025	About Linear Congruences
	12-1-2025	S. U. N. D. A. Y.
2	13-1-2025	NO CLASS
	14-1-2025	NO CLASS
	15-1-2025	Examples to be discussed
	16-1-2025	Fermat's theorem
	17-1-2025	Question based on Fermat's theorem to be discussed
	18-1-2025	Wilson's theorem and its converse
	19-1-2025	S. U. N. D. A. Y.
3	20-1-2025	NO CLASS
	21-1-2025	NO CLASS
	22-1-2025	Questions based on Wilson's theorem and its converse to be discussed

	23-1-2025	Linear Diophantine equations in two variables
	24-1-2025	Questions based on Linear Diophantine equations in two variables to be discussed
	25-1-2025	Complete residue system and reduced residue system modulo m.
	26-1-2025	REPUBLIC DAY /S. U. N. D. A. Y.
4	27-1-2025	NO CLASS
	28-1-2025	NO CLASS
	29-1-2025	About Euler's ϕ function
	30-1-2025	Euler's generalization of Fermat's theorem.
	31-1-2025	Chinese Remainder Theorem.
	1-2-2025	Questions to be discussed on above topics
	2-2-2025	S. U. N. D. A. Y/BASANT PANCHAMI
5	3-2-2025	NO CLASS
	4-2-2025	NO CLASS
	5-2-2025	Revision of Unit-I
	6-2-2025	Doubt Class
	7-2-2025	Test of Unit-I
	8-2-2025	Results of test to be discussed
	9-2-2025	S. U. N. D. A. Y
6	10-2-2025	NO CLASS
	11-2-2025	NO CLASS
	12-2-2025	HOLIDAY: GURU RAVIDAS JAYANTI
	13-2-2025	Chinese Remainder Theorem
	14-2-2025	Legendre symbols
	15-2-2025	Lemma of Gauss

	16-2-2025	S. U. N. D. A. Y.
7	17-2-2025	NO CLASS
	18-2-2025	NO CLASS
	19-2-2025	Gauss reciprocity law.
	20-2-2025	Questions to be discussed related to above topics
	21-2-2025	Greatest integer function $[x]$.
	22-2-2025	The number of divisors and the sum of divisors of a natural number n (The functions $d(n)$ and $\sigma(n)$).
	23-2-2025	S. U. N. D. A. Y.
8	24-2-2025	NO CLASS
	25-2-2025	NO CLASS
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	Examples to be discussed
	28-2-2025	Moebius function and Moebius inversion formula.
	1-3-2025	Revision of the topics
	2-3-2025	S. U. N. D. A. Y.
9	3-3-2025	NO CLASS
	4-3-2025	NO CLASS
	5-3-2025	Test of Unit-II
	6-3-2025	Results of Test to be discussed
	7-3-2025	Doubt Class
	8-3-2025	Assignment to be given based on Unit-I and Unit-II
	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	NO CLASS
	18-3-2025	NO CLASS
	19-3-2025	Assignment -I to be discussed
	20-3-2025	About De Moivre's Theorem
	21-3-2025	Applications of De Moivre's Theorem
	22-3-2025	Questions based on De Moivre's Theorem to be discussed
	23-3-2025	S. U. N. D. A. Y.
12	24-3-2025	NO CLASS
	25-3-2025	NO CLASS
	26-3-2025	Expansion of trigonometrical functions.
	27-3-2025	Discussion on questions based on Expansion of trigonometrical functions.
	28-3-2025	Direct circular and hyperbolic functions and their properties.
	29-3-2025	Questions based on Direct circular and hyperbolic functions and their properties.
	30-3-2025	S. U. N. D. A. Y.
13	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	NO CLASS
	2-4-2025	Test of Unit-III

	3-4-2025	Test results to be discussed
	4-4-2025	Inverse circular and hyperbolic functions and their properties.
	5-4-2025	Questions based on Inverse circular and hyperbolic functions and their properties to be discussed
	6-4-2025	S. U. N. D. A. Y.
14	7-4-2025	NO CLASS
	8-4-2025	NO CLASS
	9-4-2025	Logarithm of a complex quantity
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	Gregory's series
	12-4-2025	Questions based on Gregory's series to be discussed
	13-4-2025	S. U. N. D. A. Y.
15	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	NO CLASS
	16-4-2025	Questions based on Gregory's series to be discussed
	17-4-2025	Assignment -II based on Unit-III and Unit-IV to be given
	18-4-2025	Summation of Trigonometry series.
	19-4-2025	Questions based on Summation of Trigonometry series to be discussed
	20-4-2025	S. U. N. D. A. Y.
16	21-4-2025	NO CLASS
	22-4-2025	NO CLASS
	23-4-2025	Questions based on Summation of Trigonometry series to be discussed
	24-4-2025	Test of Unit-IV to be taken
	25-4-2025	Discussion of test results

	26-4-2025	Discussion of Assignment-II results
	27-4-2025	S. U. N. D. A. Y.
17	28-4-2025	NO CLASS
	29-4-2025	NO CLASS
	30-4-2025	HOLIDAY: AKSHAY TRITYA
	01-05-2025	Revision of all Syllabus
	02-05-2025	Revision of all Syllabus
	03-05-2025	Revision of all Syllabus
	04-05-2025	S. U. N. D. A. Y.

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Signature