



Aggarwal College Ballabgarh

LESSON PLAN 17 WEEKS (JAN-APRIL)-2025

Name of Faculty: Yogesh Kumar Goyal
Designation/ Department: Mathematics

CLASS: BA/B. Sc. II	SEMESTER: IV	SECTION:
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SUBJECT: Sequence and Series

Week		
1	7-1-2025	An Introduction to Syllabi
	8-1-2025	Introduction to real numbers and Topology of real numbers
	9-1-2025	Bounded sets and meaning
	10-1-2025	Illustrations
	11-1-2025	Related theorems
	12-1-2025	S. U. N. D. A. Y.
2	13-1-2025	Least upper bound and greatest lower bounds
	14-1-2025	Greatest common divisor and least common multiple Illustrations
	15-1-2025	Further illustrations
	16-1-2025	Important definitions ,Interior points
	17-1-2025	Illustrations
	18-1-2025	Neighborhoods, Illustrations and open sets
	19-1-2025	S. U. N. D. A. Y.
3	20-1-2025	Examples
	21-1-2025	limit points, isolated points
	22-1-2025	Test

	23-1-2025	Illustrations and theorems on open sets
	24-1-2025	derived sets, closed sets , Closure sets
	25-1-2025	Examples
	26-1-2025	REPUBLIC DAY /S. U. N. D. A. Y.
4	27-1-2025	Related theorems, Assignment
	28-1-2025	Discussion
	29-1-2025	Bolzano –Weierstrass theorem
	30-1-2025	Open covers, illustrations
	31-1-2025	Sub covers, illustrations
	1-2-2025	Compact sets
	2-2-2025	S. U. N. D. A. Y/BASANT PANCHAMI
5	3-2-2025	Illustrations and related results
	4-2-2025	Heine – Borel theorem
	5-2-2025	Introduction to sequences and sequences of real numbers
	6-2-2025	Convergence of real sequence
	7-2-2025	Limit and limit points of a sequence
	8-2-2025	Convergent and bounded sequences
	9-2-2025	S. U. N. D. A. Y
6	10-2-2025	Related theorems
	11-2-2025	Continue
	12-2-2025	HOLIDAY: GURU RAVIDAS JAYANTI
	13-2-2025	Monotonic sequences and criteria of convergence of Monotonic sequences
	14-2-2025	Problem discussion and related theorems
	15-2-2025	Examples

	16-2-2025	S. U. N. D. A. Y.
7	17-2-2025	Test
	18-2-2025	Subsequence
	19-2-2025	Bolzano Weierstrass theorem for sequences
	20-2-2025	Cauchy's sequences and convergence
	21-2-2025	Problem discussion
	22-2-2025	Infinite series meaning and relation with sequences
	23-2-2025	S. U. N. D. A. Y.
8	24-2-2025	Convergence, divergence of infinite series of positive terms
	25-2-2025	Discussion
	26-2-2025	HOLIDAY: MAHA SHIVRATRI
	27-2-2025	Comparison test of convergence and illustrations
	28-2-2025	Convergence of series, terms in GP
	1-3-2025	p-test of convergence
	2-3-2025	S. U. N. D. A. Y.
9	3-3-2025	Examples
	4-3-2025	Examples
	5-3-2025	D'Alemberts Ratio test of convergence
	6-3-2025	Illustrations and Problem discussion
	7-3-2025	More Illustrations
	8-3-2025	Rabbits test
	9-3-2025	S. U. N. D. A. Y.
10	10-3-2025	Illustrations
	11-3-2025	Logarithmic test

	12-3-2025	Illustrations
	13-3-2025	De Morgan's test
	14-3-2025	Illustrations and problems
	15-3-2025	Cauchy's root test
	16-03-2025	S. U. N. D. A. Y.
11	17-3-2025	Examples based on Cauchy's root test
	18-3-2025	Discussion on questions from question Papers
	19-3-2025	Gauss test
	20-3-2025	Illustrations
	21-3-2025	Cauchy's integral test
	22-3-2025	Examples
	23-3-2025	S. U. N. D. A. Y.
12	24-3-2025	Cauchy's condensation test
	25-3-2025	Test
	26-3-2025	Alternating series, meaning and illustrations
	27-3-2025	Illustrations
	28-3-2025	Conditional convergence and Absolute convergence
	29-3-2025	Leibnitz's test for convergence of alternating series
	30-3-2025	S. U. N. D. A. Y.
13	31-3-2025	HOLIDAY: ID-UL-FITR
	1-4-2025	Illustrations
	2-4-2025	Infinite product
	3-4-2025	Convergence, divergence of infinite products
	4-4-2025	Theorems and examples

	5-4-2025	Examples
	6-4-2025	S. U. N. D. A. Y.
14	7-4-2025	Arbitrary series, Abels and Drichlet test
	8-4-2025	Examples of Abels test
	9-4-2025	Examples of Drichlet test
	10-4-2025	HOLIDAY: MAHAVIR JAYANTI
	11-4-2025	
	12-4-2025	
	13-4-2025	S. U. N. D. A. Y.
15	14-4-2025	HOLIDAY: AMBEDKAR JAYANTI
	15-4-2025	Important questions, based on exam
	16-4-2025	Miscellaneous examples
	17-4-2025	More Examples
	18-4-2025	Discussion
	19-4-2025	TEST
	20-4-2025	S. U. N. D. A. Y.
16	21-4-2025	Revision Unit I
	22-4-2025	Revision Unit I
	23-4-2025	Revision Unit II
	24-4-2025	Revision Unit II
	25-4-2025	Revision Unit III
	26-4-2025	Revision Unit III
	27-4-2025	S. U. N. D. A. Y.
	28-4-2025	Revision Unit IV

17	29-4-2025	
	30-4-2025	HOLIDAY: AKSHAY TRITYA
	01-05-2025	
	02-05-2025	
	03-05-2025	
	04-05-2025	S. U. N. D. A. Y.

Signature