

Pt. CLS Govt. college karnal

LESSON PLAN

SESSION 2023-24 (01.01.2024 to 30.04.2024)

Weekly Lesson Plan (Even Semester)

Name of the Paper:- SEQUENCES AND SERIES Class: B.sc 4th sem.

Name of the Teachers (Section A&B) : Kawaljeet singh

WEEK	DATE	TOPICS
1	January (1-6)	Sets
		Bounded and Unbounded Sets
		Least upper bound and Greatest lower bound
		Theorems
		Theorems
		Revise
SUNDAY - 07.01.2024		
2	January (8-13)	Examples
		Problem Discussion
		Neighbourhood of a Point
		Theorems
		Problems
		Test
SUNDAY - 14.01.2024		
3	January (15-16)	Examples
		Interior Point of a Set
		Open Set
	January (18-20)	Theorems
		Closed Sets
		Examples
HOLIDAY - 17.01.2024-SHRI GURU GOBIND SINGH JI JAYANTI		
SUNDAY - 21.01.2024		
4	January (22-25)	Limit Point
		Closures
	January (27)	Theorems
		Problems
		TEST
HOLIDAY - 26.01.2024 - REPUBLIC DAY		
SUNDAY - 28.01.2024		
	January	Bolzano Weierstrass Theorem
		Theorems

5	(29-31) February (1-3)	Examples
		Compact Set
		Cover and Open Cover
		Revision
SUNDAY - 04.02.2024		
6	February (5-10)	Theorems
		Examples
		Convergent Sequence and Divergent Sequence
		Oscillatory Sequence
		Examples
		Problems
SUNDAY - 11.02.2024		
7	February (12-13) February (15-17)	Basic Theorems of limits and Squeeze Principle
		Cauchy First Theorem
		Cauchy Second Theorem
	Examples	
	Problems	
HOLIDAY 14.02.2024 - BASANT PANCHMI/SIR CHHOTU RAM JAYANTI		
SUNDAY - 18.02.2024		
8	February (19-24)	MONOTONIC SEQUENCE
		Nested sequence
		Examples
		Limit Point of a Sequence
		Cauchy Sequence
		Examples
SUNDAY - 25.02.2024		
9	February (26-29) March (1-2)	Cauchy Sequence
		Problem Discussion
		Test
	Infinite Series	
	Examples	
	PROBLEM	
SUNDAY - 03.03.2024		
10	March (4-7) March (9)	cauchy 's general principle of convergence
		Geometric Series
		Series of Positive terms
	Comparison Test, p-series Test	
	Examples	
	Revision	
HOLIDAY - 08.03.2024 - MAHA SHIVRATRI		
SUNDAY - 10.03.2024		
		Problems

11	March (11-16)	D'Alemberts Ratio Test and Examples
		Cauchy Root Test and Examples
		Raabe's Test and Examples
		Logarithmic Test and Examples
		De Morgan's Test and Gauss Test
SUNDAY - 17.03.2024		
12	March (18-22)	Problem discussion
		Problem discussion
		Cauchy Integral Test and Cauchy Condensation Test
		Alternating Series, Leibnitz's Test
		Absolute and Conditional Convergence
		problem
HOLI VACATION - 23.03.2024 - 31.03.2024 (SHAHEEDI DIWAS - 23.03.2024)		
13	April (1-6)	Arbitrary Series, Abels Lemma, Abels Test
		Examples
		Dirichlet's Test and Examples
		Examples
		Problem
SUNDAY - 07.04.2024		
14	April (8-10)	Insertion and Removal of Parenthesis
		Examples
	April (12-13)	Riemann Arrangement Theorem
		Multiplication of Series
		Revision
		Test
HOLIDAY - 11.04.2024 - ID-UL-FITR		
SUNDAY - 14.04.2024		
15	April (15-16)	Cauchy Theorem
		Mertin's Theorem and Examples
	April (18-20)	Cauchy Theorem
		Mertin's Theorem and Examples
		r
HOLIDAY - 17.04.2024 - RAM NAVMI		
SUNDAY - 21.04.2024		
16	April (22-27)	Infinite Product
		Sequence of Partial Sum
		General Principle of Convergence
		Theorems and Examples
		More Theorems on Infinite Product
		Examples and Problems

SUNDAY - 28.04.2024			
17	April (29-30)	Examples and Problems	
		Revision	
		Revision	
		Test	
University Examinations w.e.f. 01.05.2024			