



**Aggarwal College Ballabgarh**

**LESSON PLAN**  
**18 WEEKS (JULY-NOV)-2024**

**Name of Faculty: Dr. Geeta Tripathi**  
**Designation/ Department: Assistant Professor/ Mathematics**

**CLASS: B.Sc.(H)MATHS-3**

**SEMESTER: V**

**SECTION:**

**SUBJECT: REAL ANALYSIS**

WEEK	DATE	TOPIC TO BE COVERED
1	1-08-2024	Introduction of Riemann integral
	2-08-2024	Continued
	3-08-2024	Continued
	4-08-2024	<b>S. U. N. D. A. Y.</b>
	5-08-2024	Problems related with the above topic
	6-08-2024	Continued
	7-08-2024	<b>H.O.L.I. D. A. Y.</b>
2	8-08-2024	Continued
	9-08-2024	Integrability of continuous and monotonic functions
	10-08-2024	Problems related with the above topic
	11-08-2024	<b>S. U. N. D. A. Y.</b>
	12-08-2024	Continued
	13-08-2024	Revision test
	14-08-2024	The Fundamental theorem of integral calculus
3	15-08-2024	<b>H.O.L.I. D. A. Y.</b>
	16-08-2024	Continued

	17-08-2024	Continued
	18-08-2024	<b>S. U. N. D. A. Y.</b>
	19-08-2024	<b>H.O.L.I. D. A. Y.</b>
	20-08-2024	Continued
	21-08-2024	Mean value theorems of integral calculus
4	22-08-2024	Continued
	23-08-2024	Continued
	24-08-2024	Doubt class
	25-08-2024	<b>S. U. N. D. A. Y.</b>
	26-08-2024	<b>HOLIDAY</b>
	27-08-2024	Improper integrals and their convergence
	28-08-2024	Continued
5	29-08-2024	Continued
	30-08-2024	Continued
	31-08-2024	Comparison tests
	1-09-2024	<b>S. U. N. D. A. Y.</b>
	2-09-2024	Continued
	3-09-2024	Continued
	4-09-2024	Abel's test
6	5-09-2024	Problems related with the above topic
	6-09-2024	Continued
	7-09-2024	Dirichlet's test
	8-09-2024	<b>S. U. N. D. A. Y.</b>

	9-09-2024	Problems related with the above topic
	10-09-2024	Frullani's integral
	11-09-2024	Continued
7	12-09-2024	Continued
	13-09-2024	Integral as a function of a parameter
	14-09-2024	Problems related with the above topic
	15-09-2024	<b>S. U. N. D. A. Y.</b>
	16-09-2024	Continued
	17-09-2024	Continued
	18-09-2024	Continuity
8	19-09-2024	Problems related with the above topic
	20-09-2024	Differentiability and Integral as a function of a parameter
	21-09-2024	Problems related with the above topic
	22-09-2024	<b>S. U. N. D. A. Y.</b>
	23-09-2024	<b>H.O.L.I. D. A. Y.</b>
	24-09-2024	Continued
	25-09-2024	Continued
9	26-09-2024	Definition and examples of metric spaces
	27-09-2024	Continued
	28-09-2024	Continued
	29-09-2024	<b>S. U. N. D. A. Y.</b>
	30-09-2024	Definitions of neighborhoods, limit points, interior points
	1-10-2024	Examples related with the topic

	2-10-2024	<b>HOLIDAY</b>
10	3-10-2024	Doubt class
	4-10-2024	<b>HOLIDAY</b>
	5-10-2024	open and closed sets
	6-10-2024	<b>S. U. N. D. A. Y.</b>
	7-10-2024	Theorems related with the above topic
	8-10-2024	Continued
	9-10-2024	boundary points, subspace of a metric space, equivalent metrics
11	10-10-2024	Continued
	11-10-2024	Cantor's intersection theorem
	12-10-2024	<b>HOLIDAY</b>
	13-10-2024	<b>S. U. N. D. A. Y.</b>
	14-10-2024	Revision test
	15-10-2024	Baire's category theorem
	16-10-2024	Continued
12	17-10-2024	<b>HOLIDAY</b>
	18-10-2024	Contraction principle
	19-10-2024	Continuous functions
	20-10-2024	<b>S. U. N. D. A. Y.</b>
	21-10-2024	Uniform continuity
	22-10-2024	Theorem related with the above topic
	23-10-2024	Compactness for metric spaces
13	24-10-2024	Problems related with the above topic
	25-10-2024	Revision test

	26-10-2024	Sequential compactness
	27-10-2024	<b>S. U. N. D. A. Y.</b>
	28-10-2024	<b>DIWALI BREAK</b>
	29-10-2024	<b>DIWALI BREAK</b>
	30-10-2024	<b>DIWALI BREAK</b>
14	31-10-2024	<b>DIWALI BREAK</b>
	1-11-2024	<b>DIWALI BREAK</b>
	2-11-2024	<b>DIWALI BREAK</b>
	3-11-2024	<b>S. U. N. D. A. Y.</b>
	4-11-2024	Continued
	5-11-2024	Bolzano-Weierstrass property
	6-11-2024	Continued
15	7-11-2024	Continued
	8-11-2024	Total boundedness
	9-11-2024	Continued
	10-11-2024	<b>ZONAL YOUTH FESTIVAL</b>
	11-11-2024	<b>ZONAL YOUTH FESTIVAL</b>
	12-11-2024	<b>ZONAL YOUTH FESTIVAL</b>
	13-11-2024	Finite intersection property
16	14-11-2024	Continued
	15-11-2024	<b>H.O.L.I.D.A.Y.</b>
	16-11-2024	Continuity in relation with compactness
	17-11-2024	<b>S. U. N. D. A. Y.</b>
	18-11-2024	Doubt class

	19-11-2024	Continuity in relation with connectedness
	20-11-2024	Continued
17	21-11-2024	Revision test of unit I
	22-11-2024	Revision test of unit II
	23-11-2024	Continued
	24-11-2024	<b>S. U. N. D. A. Y.</b>
	25-11-2024	Revision test of unit III
	26-11-2024	Continued
	27-11-2024	Continued
18	28-11-2024	Revision test of unit IV
	29-11-2024	Continued
	30-11-2024	Continued
	1-12-2024	<b>S. U. N. D. A. Y.</b>
	2-12-2024	Revision of PYQs
	3-12-2024	Continued
	4-12-2024	Continued
	5-12-2024	Continued

Signature