Lesson Plan (Odd Semester) Session 2023-24
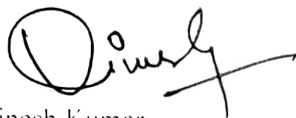
Name of the Assistant Professor: - DINESH KUMAR
Class: - B.Sc 3rd Year (5th-Sem.)
Subject: - Mathematics
REAL ANALYSIS (BM-351)

Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
24 July to 31 July	UNIT-1 Riemann Integral Integrability of Continuous and Monotonic functions	
01 Aug. to 15 Aug.	The fundamental theorem of integral calculus	
16 Aug. to 31 Aug.	Mean value theorems of integral calculus	Unit Test
01 Sept. to 15 Sept.	UNIT-2 Improper integrals and their convergence	
16 Sept. to 30 Sept.	Integral as a function of a Parameter	Unit Test
01 Oct. to 15 Oct.	UNIT-3 Metric Spaces Open and Closed sets in Metric spaces	
16 Oct. to 31 Oct.	Completeness in Metric Spaces	Unit Test
01 Nov. to 15 Nov.	UNIT-4 Continuity and Uniform Continuity in Metric Spaces	

16 Nov. to 30 Nov.	Compactness in Metric Spaces Connectedness in Metric Spaces	Unit Test
01 Dec. to 10 Dec.	Revision	

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31/08/2045

Lesson Plan (Odd Semester) Session 2023-24

Name of the Assistant Professor: - DINESH KUMAR
Class: - B.Sc 3rd Year (5th-Sem.)
Subject: - Mathematics
GROUPS AND RINGS (BM-352)

Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
24 July to 31 July	UNIT-1 Groups and Subgroups	
01 Aug. to 15 Aug.	Generation of groups Cyclic Groups	
16 Aug. to 31 Aug.	Cosets	Unit Test
01 Sept. to 15 Sept.	UNIT-2 Homomorphisms and Automorphisms	
16 Sept. to 30 Sept.	Permutation Groups	Unit Test
01 Oct. to 15 Oct.	UNIT-3 Rings and Fields	
16 Oct. to 31 Oct.	Ideals and Quotient Rings Homomorphisms of Rings	Unit Test
01 Nov. to 15 Nov.	UNIT-4 Euclidean Rings	

		Unit Test
16 Nov. to 30 Nov.	Polynomial Rings	
01 Dec. to 10 Dec.	Revision	

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31/08/2025

Lesson Plan (Odd Semester) Session 2023-24

Name of the Assistant Professor: - DINESH KUMAR
Class: - B.Sc 3rd Year (5th-Sem.)
Subject: - Mathematics
NUMERICAL ANALYSIS (BM-353)

Period	Topics to be covered	Topic of Assignments / Tests to be given to the students
24 July to 31 July	UNIT-1 Finite Difference Operators	
01 Aug. to 15 Aug.	Interpolation with Equal Intervals	
16 Aug. to 31 Aug.	Interpolation with unequal Intervals	Unit Test
01 Sept. to 15 Sept.	UNIT-2 Central Difference Interpolation Formulae	
16 Sept. to 30 Sept.	Probability Distributions	Unit Test
01 Oct. to 15 Oct.	UNIT-3 Numerical Differentiation	
16 Oct. to 31 Oct.	Eigen Value Problems	Unit Test
01 Nov. to 15 Nov.	UNIT-4 Numerical Integration	

16 Nov. to 30 Nov.	Numerical Solution of Ordinary Differential Equations	Unit Test
01 Dec. to 10 Dec.	Revision	

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Sumit
31/08/2022