

Govt College ,Bherian (Pehowa)

Lesson Plan (January 2023 to April 2024)

NAME-MR. JASBIR JAGLYAN

SUBJECT-MATHEMATICS

PAPER-Linear Algebra

Class-BA/B.Sc-III

Sr.no.	month	date	topic
1	January	1 st to 6 th	Vector Spaces
2	January	7 th to 13 th	Subspaces
3	January	14 th to 20 th	Basis OF Vector Spaces
4	January	20 th to 30 th	Dimension of Vector Spaces
5	February	1 st to 3 rd	Quotient Space
6	February	4 th to 10 th	Linear Transformations
7	February	11 th to 17 th	Rank and Nullity of Vector Spaces
8	February	18 th to 24 th	Revision and Test
9	February	25 th to 29 th	Algebra of Linear Transformations
10	March	1 st to 2 nd	Matrix of Linear Transformations
11	March	4 th to 9 th	Dual Space
12	March	10 th to 16 th	Revision and Test
13	March	17 th to 22 nd	Eigen Values and Eigen Vectors
14	April	1 st to 6 th	Inner Product Spaces
15	April	7 th to 13 th	Linear Operators on Inner Product Spaces
16	April	14 th to 20 th	Revision and Test
17	April	21 st to 27 th	Revision and Test
18	April	28 ^h to 30 th	Revision and Test

Exam starts from 01.05.2024

Jasbir

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SUBJECT-MATHEMATICS

PAPER-DYNAMICS

Class-BA/B.Sc-III

Sr.no.	month	date	topic
1	January	1 st to 6 th	Motion along a plane curve
2	January	7 th to 13 th	Relative Motion
3	January	14 th to 20 th	Simple Harmonic Motion
4	January	20 th to 30 th	Elastic Strings
5	February	1 st to 3 rd	Newton Law of Motion
6	February	4 th to 10 th	Work
7	February	11 th to 17 th	Power and Energy
8	February	18 th to 24 th	Revision and Test
9	February	25 th to 29 th	Motion of a particle on smooth plane
10	March	1 st to 2 nd	Motion of a particle on rough plane
11	March	4 th to 9 th	Projectiles
12	March	10 th to 16 th	Revision and Test
13	March	17 th to 22 nd	Central orbits
14	April	1 st to 6 th	Kepler law of planetary motion
15	April	7 th to 13 th	Motion of a particle in three dimension
16	April	14 th to 20 th	Revision and Test
17	April	21 st to 27 th	Revision and Test
18	April	28 th to 30 th	Revision and Test

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SUBJECT-MATHEMATICS

PAPER-Sequence and Series

Class-BA/B.Sc-II

Sr.no.	month	date	topic
1	January	1 st to 6 th	Boundedness of the set of Real No., Least Upper Bound, Greatest Lower Bound
2	January	7 th to 13 th	Neighbourhoods, Interior Point
3	January	14 th to 20 th	Open Sets, Closed Sets, Interior of a Set
4	January	20 th to 30 th	Closure of a Set and their Properties
5	February	1 st to 3 rd	Bolzano-Weierstrass theorem, Compact Sets
6	February	4 th to 10 th	Real Sequence and their Convergence, Theorems on Limits of Sequence
7	February	11 th to 17 th	Bounded and Monotonic Sequence, Cauchy's Sequence, Subsequence
8	February	18 th to 24 th	Convergence and Divergence of infinite Series, Comparison tests, Hyper Harmonic Series or p-series
9	February	25 th to 29 th	Convergence and Divergence of geometric series
10	March	1 st to 2 nd	D'Alembert's Ratio Test, Raabe's Test
11	March	4 th to 9 th	Logarithmic test, de Morgan Test
12	March	10 th to 16 th	Cauchy's nth root Test, Gauss Test
13	March	17 th to 22 nd	Cauchy's Integral test, Cauchy's Condensation test
14	April	1 st to 6 th	Alternating Series : Liebnitz's test, absolute and conditional convergence
15	April	7 th to 13 th	Abel's test, Dirichlet's test
16	April	14 th to 20 th	Convergence and absolute convergence of infinite products
17	April	21 st to 27 th	Revision and Test
18	April	28 th to 30 th	Revision and Test

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Jasbir Jaglyan