Govt. College for Girls, Padha (Karnal)

Lesson Plan for Even Semester

(January - April, 2024)

Name of the teacher-

Class- BA 6th Sem

Subject- Maths

Paper- LINEAR ALGEBRA

1 st Week 1-6 January	Vector spaces, subspaces, Sum and Direct sum of subspaces.
7 January	Sunday
2 nd Week 8-13 January	Linear span, Lineraly Independent and dependent subsets of a vector space.
14 January	Sunday
3 rd Week 15-16 January	Finitely generated vector space, Existence theorem for basis of a generated vector space.
17 January	Shri Guru Gobind Singh Jayanti
18-20 January	Finite dimensional vector spaces, Invariance of the number of elements of basic sets.
21 January	Sunday
4 th Week 22-25 January	Dimensions, Quotient space and its dimension.
26 January	Republic Day
28 January	Sunday
5 th Week 29 January-3 February	Homomorphism and isomorphism of vector spaces.
4 February	Sunday
2 nd Week	Linear transformations and Linear form on vector spaces.

5-10 February	
11 February	Sunday
3 rd Week	Vector space of all the linear transforms.
12-13 February	
14 February	Basant Panchmi/ Sir Chotu Ram Jayanti
15-17 February	Dual spaces, Bidual spaces.
18 February	Sunday
4 th Week	Annihilator of subspaces of finite dimensional vector spaces, Null space.
19-23 February	
24 February	Guru Ravidas Jayanti
25 February	Sunday
5 th Week	
26 February-2 March	Range space of a transformation, Rank and Nullity theorem.
3 March	Sunday
2 nd Week	Algebra of Linear Transformation
4-7 March	Algeora of Enioar Transformation.
8 March	Mahashivratri
9 March	Minimal Polynomial of a linear transformation.
10 March	Sunday
3 rd Week	Singular and non-singular linear transformations.
11-16 March	
17 March	Sunday
4 th Week	Matrix of a linear transformation. Change of basis
18-22 March	Wattix of a filled transformation, change of basis.
23 March	Vacations (Holi)
24 March	
5 th Week	

25-30 March	
31 March	
1 st Week	Eigen values and Eigen vectors of linear transformations.
1-6 April	
7 April	Sunday
2 nd Week	Inner product spaces, Cauchy-Schwariz inequality.
8-10 April	
11 April	Id-Ul-Fitar
12 April	Orthogonal vectors, Orthogonal complements.
13 April	Baisakhi
14 April	Sunday
3 rd Week	Orthogonal sets and Basis, Bessel's inequality for finite
15-16 April	dimensional vector spaces.
17 April	Ramnavmi
18-20 April	Gram-Schmidt Orthogonalization process.
21 April	Sunday
4 th Week	Adjoint Of a linear transformation and its properties, Unitary linear
22-27 April	transformations.
28 April	Sunday
5 th Week	TEST AND REVISION
29-30 April	