

Lesson Plan

Name of the Assistant/ Associate Professor :- Ms. Nisha

Class and Section:- B.A. III

Subject:- Linear Algebra

Week	Date	Topics
1	1-Jan-18	holidays
	2-Jan-18	holidays
	3-Jan-18	holidays
	4-Jan-18	holidays
	5-Jan-18	holidays
	6-Jan-18	Basic definitions of Vector spaces and its properties and examples
	7-Jan-18	Sunday
2	8-Jan-18	Problems related to properties of vector spaces
	9-Jan-18	Subspaces of vector spaces and some theorems related to vector subspaces
	10-Jan-18	some properties and problems related to vector subspaces
	11-Jan-18	Linear Sum of subspaces with theorems and its solution
	12-Jan-18	linear combination of vectors and linear dependence and independence of vectors with theorems and problems
	13-Jan-18	Linear span, finitely generated vector space with theorem
	14-Jan-18	Sunday
3	15-Jan-18	Examples on linear span, basis vector spaces, ordered basis, coordinates of vector relative to basis
	16-Jan-18	Theorems on basis, maximal linearly independent set
	17-Jan-18	<i>Test of vector spaces and assignment from chapter 1</i>
	18-Jan-18	dimension of a vector spaces, Examples and problems on dimension, extension theorems
	19-Jan-18	Identical subspaces, theorem(dimension on linear sum) with problems
	20-Jan-18	Theorems, dimension of quotient spaces(theorems),examples and problems on quotient space
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Problems related to unit I and submission of assignment
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Linear transformation :- introduction, theorem and types
	26-Jan-18	Republic Day
	27-Jan-18	Linear transformation :- Examples, properties and problems <i>Assignments:</i> Solve some numerical to find T related to linear transformation
	28-Jan-18	Sunday
5	29-Jan-18	Null space or Kernel of linear transformation and theorem
	30-Jan-18	Range space or Image space of linear transformation and theorems Rank and Nullity of linear transformation, Theorem(Sylvester's Law)
	31-Jan-18	Guru Ravidas Jayanti

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Week	Date	Topics
1	1-Feb-18	Numerical problems on rank and nullity
	2-Feb-18	Matrix of linear transformation relative to ordered basis with examples
	3-Feb-18	Notation of coordinate vector and related examples
	4-Feb-18	Sunday
2	5-Feb-18	Matrices of identity and zero transformation with problems based on finding matrix of linear transformation
	6-Feb-18	Change of basis with example and exercise
	7-Feb-18	Sum of linear transformations and theorems
	8-Feb-18	Examples and problems to previous topic
	9-Feb-18	Vector space all linear transformation and related theorem
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Test of chapter 5
	13-Feb-18	Maha Shivratri
	14-Feb-18	Dual space and its examples and theorem
	15-Feb-18	Bi-dual or double dual of vector spaces and theorem
	16-Feb-18	Annihilator and theorems on annihilator
	17-Feb-18	Annihilator of an annihilator, theorem and related problems
	18-Feb-18	Sunday
4	19-Feb-18	Eigen values and eigen vectors of linear transformation
	20-Feb-18	Eigen space, some important theorems Examples to find eigen values and vectors
	21-Feb-18	Similar matrices and theorems
	22-Feb-18	Diagonalisation, Diagonalizable matrix and theorem
	23-Feb-18	Numerical examples
	24-Feb-18	Numerical examples-cont.
	25-Feb-18	Sunday
5	26-Feb-18	Minimal Polynomial, Cayley Hamilton theorem
	27-Feb-18	Theorems and exercise
	28-Feb-18	Vacations-II (Holi Vacation)

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Week	Date	Topics
1	1-Mar-18	Vacations-II (Holi vacation)
	2-Mar-18	Vacations-II (Holi vacation)
	3-Mar-18	Vacations-II (Holi vacation)
	4-Mar-18	Vacations-II (Holi vacation)
2	5-Mar-18	Problems to find minimal polynomial
	6-Mar-18	Introduction ,inner product spaces with examples
	7-Mar-18	Properties of Inner product space with examples
	8-Mar-18	Norm of a vector, Cauchy Schwarz inequality
	9-Mar-18	Triangle inequality and theorems
	10-Mar-18	Theorems and examples
	11-Mar-18	Sunday
3	12-Mar-18	Theorems and normed linear space
	13-Mar-18	<i>Assignments:</i> Properties and examples of Inner product spaces Orthogonal vectors and Orthogonal complement
	14-Mar-18	Theorems related to orthogonality
	15-Mar-18	Related examples to Orthogonality
	16-Mar-18	Orthonormal set and theorem
	17-Mar-18	Bessel's inequality and theorem
	18-Mar-18	Sunday
4	19-Mar-18	Problems of previous chapters
	20-Mar-18	Problems of previous chapters
	21-Mar-18	Test of chapter 7 and 8
	22-Mar-18	Gram Schmidt Orthonormalization process(theorem)
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Examples on Gram Schmidt Orthonormalization process
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	Some important theorems
	27-Mar-18	Problems related to inner product spaces
	28-Mar-18	Some important theorems
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Some important theorems and examples

31-Mar-18	Exercise based on whole chapter
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Week	Date	Topics
1		Sunday
	1-Apr-18	
	2-Apr-18	Exercise based on whole chapter-cont.
	3-Apr-18	Revision of chapter
	4-Apr-18	Test of chapter
	5-Apr-18	Introduction of operators adjoint operators , self adjoint operators, some important concepts
	6-Apr-18	Some theorems on linear operators
	7-Apr-18	Some theorems on linear operators
2	8-Apr-18	Sunday
	9-Apr-18	Some theorems on linear operators
	10-Apr-18	Examples on linear operators
	11-Apr-18	Exercise questions of linear operator
	12-Apr-18	Exercise questions of linear operator
	13-Apr-18	Revision of chapter
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Test of chapter
	17-Apr-18	Discussion of test
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Chapter-wise revision of book start Chapter-1
	20-Apr-18	Chapter-2
	21-Apr-18	Chapter-3,4
	22-Apr-18	Sunday
	4	23-Apr-18
24-Apr-18		Chapter-7,8
25-Apr-18		Chapter-9
26-Apr-18		Chapter-10
27-Apr-18		Chapter-11

	28-Apr-18	Previous year question paper solution
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