

# LESSON PLAN

Period	Date	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
4	3/3/16	Introduction of matrices	I	CR		
2	4/3	Rank of a matrix	I	"		
6	6/3	Echelon form	I	"		
2	7/3	Normal form	I	"		
1	8/3	To find $A^{-1}$ using row operations.	I	"		
4	10/3	Linear system of equations consistent and inconsistent	I	"		
1	11/3	Direct methods.	I	"		
4	12/3	Gauss's elimination method	I	"		
7	13/3	Gauss's Jordan method	I	"		
2	14/3	Gauss Seidel methods.	I	"		
1	15/3	Homogeneous linear system	I	"		
4	16/3	Application: Current in an electrical circuit.	I	"		
7	20/3	Eigen values and vectors	II	"		
2	21/3	Properties of Eigen values	II	"		
4	24/3	Solved problems.	II	"		
1	25/3	Cayley-Hamilton theorem	II	"		
4	26/3	Inverse and Power of a matrix using C.H.T.	II	"		
7	27/3	Diagonalization of a matrix	II	"		
2	28/3	Introduction of quadratic forms.	II	"		
1	1/4/16	Reduction of Q.F. to Canonical form	II	"		



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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
4	2/4	Rank, Index, Signature	<u>II</u>	C.R		
7	3/4	nature of a Q.F.	<u>II</u>	"		
2	4/4	Reduction of Q.F. to canonical form by diagonalization.	<u>II</u>	"		
4	7/4	Reduction of Q.F. to Canonical form by L.T.	<u>II</u>	"		
4	9/4	Reduction of Q.F. to Canonical form by orthogonalization.	<u>II</u>	"		
2	10/4	Reduction of a Q.F. to Canonical form by Lagrange's method	<u>II</u>	"		
2	11/4	Free vibration of two mass systems,	<u>II</u>	"		
4	19/5	"	<u>II</u>	"		
1	20/5	Fourier Series, Determination of Fourier Coefficients	<u>III</u>	C.R		
4	21/5	Fourier Series in (rect)	<u>III</u>	"		
7	22/5	"	<u>III</u>	"		
2	23/5	F.S. of Even and odd functions.	<u>III</u>	"		
4	26/5	"	<u>III</u>	"		
1	27/5	Half Range Sin and Cosin Series	<u>III</u>	"		
4	28/5	"	<u>III</u>	"		
7	29/5	Fourier Series in any arbitrary interval.	<u>III</u>	"		
2	30/5	even and odd functions.	<u>III</u>	"		
4	2/6	Half Range Sine and Cosin Series	<u>III</u>	"		
1	3/6	Introduce Fourier Integral theory and Integrals.	<u>III</u>	"		
4	6/6	Fourier Integrals.	<u>III</u>	"		



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7	5/6/19	Fourier Sin and Cosine Integrals	<u>III</u>	CR		
2	6/6	Fourier Transforms	<u>III</u>	"		
4	9/6	Properties of F.T.	<u>III</u>	"		
1	14/6	"	<u>III</u>	"		
4	11/6	Fourier Inverse Transf.	<u>III</u>	"		
7	12/6	Fourier Sine and Cosine Transforms	<u>III</u>	"		
2	13/6	"	<u>III</u>	"		
4	16/6	Finite Fourier Transf.	<u>III</u>	"		
1	17/6	Finite Fourier Transf.	<u>III</u>	"		
4	18/6	Introduction Z-Transforms	<u>IV</u>	CR		
7	19/6	Properties Z-Transforms	<u>IV</u>	"		
2	20/6	Inverse Z-Transforms and Results	<u>IV</u>	"		
7	26/6	Damping Rules	<u>IV</u>	"		
2	27/6	Shifting Properties	<u>IV</u>	"		
4	30/6	Solved problems	<u>IV</u>	"		
1	1/7	Initial value Thm	<u>IV</u>	"		
4	2/7	Final value Thm	<u>IV</u>	"		
7	3/7	Inverse Z-Transform by using Partial fractions	<u>IV</u>	"		
2	4/7	"	<u>IV</u>	"		
4	7/7	Convolution Thm	<u>IV</u>	"		



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1	8/2/14	Introduce $z$ -Transform using Convolution.	IV	CR.		
4	9/2	solution of difference eqn using $z$ -Transform	IV	"		
7	10/2	"	IV	"		
2	11/2	Introduce gamma function.	V	"		
4	14/2	beta function.	V	"		
1	15/2	Properties of $\beta$ and $\gamma$ function.	V	"		
4	16/2	"	V	"		
7	17/2	Relation between $\beta$ and $\gamma$ function.	V	"		
2	18/2	Evaluation of Improper Integrals using $\beta, \gamma$	V	"		
4	21/2	"	V	"		
1	22/2	"	V	"		
4	23/2	Evaluation of Integrals - Application.	V	"		
7	24/2	"	V	"		
2	25/2	Revision of unit I		"		
4	28/2	Revision of unit -II		"		
1	29/2	Revision of unit -III.		"		
4	30/2	Revision of unit -IV		"		
	31/2	Revision of unit -V		"		

4/4/14