

| LESSON PLAN | | | | | | |
|-------------|----------|---|----------|----------------------|---------|-------------------------------|
| Period | Date | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Action Upon Review |
| 1 | 18/2/15 | Introduction to the syllabus/Basic Definitions | II | C-R | | |
| 3 | 19/2/15 | Def. of rank, Echelon form of a matrix | " | C-R | | |
| 2 | 20/2/15 | Problem on Echelon form to find the rank of a matrix. | " | C-R | | |
| 7 | 24/2/15 | Problem on Normal form to obtain the rank. | " | " | | |
| 4 | 25/2/15 | Problem on to determine $P, Q \exists PAQ = I$. | " | " | | |
| 2 | 25/2/15 | Concepts of Linear System, Consistency, Inconsistency, Problems | " | " | | |
| 7 | 02/03/15 | Problem on Consistency, Inconsistency | " | " | | |
| 4 | 03/03/15 | Problem on Gauss — Elimination Method. | " | " | | |
| 1 | 04/03/15 | Problem on Gauss-Jordan method | " | " | | |
| 3 | 05/03/15 | Problem on Gauss-Seidel Method | " | " | | |
| 7 | 13/03/15 | Eigen values, vectors. properties, definitions. | II | C-R | | |
| 4 | 24/03/15 | Problems on Eigen values and vectors. | " | " | | |
| 1 | 25/03/15 | Cayley Hamilton theorem. problems. | " | " | | |
| 3 | 26/03/15 | Inverse, powers of a matrix By C-H thm | " | " | | |
| 2 | 27/03/15 | Problems on Inverse, powers by C-H theorem. | " | " | | |
| 7 | 30/03/15 | Q.F. Introduction. Def. properties Rank. | " | " | | |
| 4 | 31/03/15 | Reduction to Canonical form by linear transform | " | " | | |
| 1 | 1/4/15 | Reduction to C.F. by orthogonal transformation. | " | " | | |
| 7 | 5/4/15 | Rank, index, Signature matrix of Q.F. | " | " | | |
| 4 | 7/4/15 | Problems on nature of Q.F. | " | " | | |

LESSON PLAN

| Period | Date (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Action Upon Review |
|--------|------------------|--|----------|----------------------|---------|-------------------------------|
| 1 | 8/4/15 | Application: Free vibration of 2 mass systems. | II | C.R | | |
| 3 | 9/4/15 | Introduction on Fourier Series Euler's formula | III | C.R | | |
| 2 | 10/4/15 | Problems on Fourier Series on $(0, 2\pi)$ | " | " | | |
| 7 | 13/4/15 | Fourier Series of Even function $(-\pi, \pi)$ | " | " | | |
| 4 | 14/4/15 | Fourier Series of Odd function $(-\pi, \pi)$ | " | " | | |
| 1 | 15/4/15 | Fourier Series on $(0, 2\pi)$ | " | " | | |
| 3 | 16/4/15 | Fourier Series of even/odd in $(-l, l)$ | " | " | | |
| 2 | 17/4/15 | Half range sine/cosine Series $(0, \pi)$ | " | " | | |
| 7 | 20/4/15 | Fourier series sine/cosine $(0, l)$ | " | " | | |
| 4 | 24/4/15 | Fourier integral thm problems | " | " | | |
| 1 | 23/4/15 | Fourier transform problems | " | " | | |
| 3 | 28/4/15 | Fourier sine, cosine transform | " | " | | |
| 2 | 24/4/15 | Inverse Fourier transform | " | " | | |
| 7 | 27/4/15 | Properties of Fourier transform | " | " | | |
| 4 | 28/4/15 | Finite Fourier transform | " | " | | |
| 1 | 29/4/15 | Introduction to Z-transform, Basic formula | IV | | | |
| 3 | 30/4/15 | Properties of Z-transform | " | " | | |
| 2 | 1/5/15 | Damping rule - problems | " | " | | |
| 7 | 18/5/15 | Shifting rule - problems | " | " | | |
| 4 | 19/5/15 | Problems on Initial value theorem | " | " | | |

LESSON PLAN

| Period | Date (tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Action Upon Review |
|--------|------------------|--|----------|----------------------|---------|-------------------------------|
| 1 | 29/5/15 | And value the δ em problems | IV | C-R | | |
| 3 | 31/5/15 | Inverse z -transform properties | " | " | | |
| 2 | 1/6/15 | Problems to Evaluate z^{-1} partial function | " | " | | |
| 7 | 27/5/15 | " | " | " | | |
| 4 | 26/5/15 | find $z^{-1}\{f(s)\}$ by convolution thm | " | " | | |
| 1 | 27/5/15 | " | " | " | | |
| 3 | 28/5/15 | Solutions of Difference Equations | " | " | | |
| 2 | 29/5/15 | Problem on D.E. | " | " | | |
| 7 | 1/6/15 | Introduction on special functions | V | C-R | | |
| 4 | 2/6/15 | Properties of Beta functions | 11 | " | | |
| 1 | 3/6/15 | Problems on Beta | " | " | | |
| 3 | 4/6/15 | Properties of Γ function | " | " | | |
| 2 | 5/6/15 | Problems on Gamma | " | " | | |
| 7 | 8/6/15 | Relation b/n β - Γ functions | " | " | | |
| 4 | 9/6/15 | Problems by use Relations | " | " | | |
| 1 | 10/6/15 | Evaluation of Improper Integrals | " | " | | |
| 3 | 11/6/15 | " | " | " | | |
| 2 | 12/6/15 | " | " | " | | |
| 7 | 15/6/15 | By using Relation | " | " | | |
| 1 | 17/6/15 | between β Γ function | " | " | | |

LESSON PLAN

| Period | Date (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Comments/Remarks Open Section |
|--------|---------------------|----------------|----------------|-------------------------|---------|----------------------------------|
| 3 | 18/6/15 | Revision class | <u>I, II</u> | C.R | | |
| 2 | 17/6/15 | 4 | <u>I, II</u> | " | | |
| 7 | 21/6/15 | 4 | <u>III, IV</u> | " | | |
| 4 | 23/6/15 | 1 | <u>III, IV</u> | " | | |
| 1 | 24/6/15 | 4 | <u>V</u> | " | | |
| 3 | 25/6/15 | 4 | <u>V</u> | " | | |
| 2 | 26/6/15 | 4 | <u>I, II</u> | " | | |
| 7 | 29/6/15 | 4 | <u>III, IV</u> | " | | |
| 4 | 30/6/15 | u. | <u>III, IV</u> | " | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |