

| | | | | | |
|---|------------------|--|-----------|----|--|
| | 3/3/16 5/3/16 | MID-II | | | |
| 5 | 8/3/16 | Introduction, frequency domain specification | <u>IV</u> | CR | |
| 6 | 8/3/16 | Determination of frequency domain specifications | <u>IV</u> | CR | |
| 3 | 9/3/16 | " " | <u>IV</u> | CR | |
| 3 | 14/3/16 | Determination of T_H from bode diagram | <u>IV</u> | CR | |
| 5 | 15/3/16 | phase margin and gain margin. | <u>IV</u> | CR | |
| 6 | 15/3/16 | Stability Analysis from bode plot | <u>IV</u> | CR | |
| 3 | 16/3/16 | polar plots and Stability Analysis | <u>IV</u> | CR | |
| 6 | 21/3/16 | Nyquist plot, Stability analysis | <u>IV</u> | CR | |
| 5 | 22/3/16 | Introduction and preliminary design considerations | <u>V</u> | CR | |
| 6 | 22/3/16 | lag, lead, lag- lead compensation | <u>V</u> | CR | |
| | 28/3/16 | " " | <u>V</u> | CR | |
| | 29/3/16 | Concepts of state, state variable | <u>V</u> | CR | |
| | 30/3/16 | State model, derivation of state model. | <u>V</u> | CR | |
| | 4/4/16 | Diagonalization | <u>V</u> | CR | |
| | 5/4/16 | Solving the time- invariant state equations | <u>V</u> | CR | |
| | 6/4/16 | State transitions | <u>V</u> | | |

| | (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks |
|---|-------------|--|------------|----------------------|---------|
| 1 | 1/2/16 | Standard test signal | <u>II</u> | CR | |
| 5 | 2/2/16 | Time response of second order system | <u>II</u> | CR | |
| 6 | 2/2/16 | Characteristic equation of feed back systems | <u>II</u> | CR | |
| 3 | 3/2/16 | Transient response of 2nd order system. | <u>II</u> | CR | |
| 3 | 3/2/16 | " " | <u>II</u> | CR | |
| 5 | 7/2/16 | Time domain - Specifications | <u>II</u> | CR | |
| 6 | 9/2/16 | Steady state response | <u>II</u> | CR | |
| 3 | 10/2/16 | Error constant | <u>II</u> | CR | |
| 5 | 15/2/16 | Effects of PD and PI controller | <u>II</u> | CR | |
| 6 | 15/2/16 | Effect of PID Controller | <u>II</u> | CR | |
| 3 | 16/2/16 | Concept of Stability | <u>III</u> | CR | |
| 1 | 17/2/16 | Routh's stability Criterion | <u>III</u> | CR | |
| 5 | 22/2/16 | " " | <u>III</u> | CR | |
| 6 | 23/2/16 | Conditional Stability | <u>III</u> | CR | |
| 3 | 23/2/16 | Root locus concept | <u>III</u> | CR | |
| 1 | 24/2/16 | Construction of root loci | <u>III</u> | CR | |
| 5 | 29/2/16 | " " | <u>III</u> | CR | |

LESSON PLAN

| Period | Date (Tentative) | Topic | Unit No. | Teaching Methodology | Remarks | Corrective Upon F |
|--------|------------------|--|----------|----------------------|---------|-------------------|
| 5 | 21-12-15 | open loop and closed loop systems | I | CR | | |
| 6 | 22-12-15 | Explanation of open & closed loop systems | I | CR | | |
| 3 | 22-12-15 | classification of control systems | I | CR | | |
| 1 | 23-12-15 | feed back characteristics | I | CR | | |
| 5 | 28/12/15 | Effect of feed back characteristics | I | CR | | |
| 6 | 29/12/15 | Effect of feed back characteristic | I | CR | | |
| 3 | 29/12/15 | Differential equations | I | CR | | |
| 1 | 30/12/15 | Transfer function and block diagram representation | I | CR | | |
| 5 | 4/1/16 | considering electrical systems with examples | I | CR | | |
| 6 | 5/1/16 | Block diagram algebra | I | CR | | |
| 3 | 6/1/16 | Reduction using Mason's gain formula | I | CR | | |
| 1 | 11/1/16 | Reduction using Mason's gain formula | I | CR | | |
| 5 | 12/1/16 | Translational and rotational systems | I | CR | | |
| 6 | 12/1/16 | " " | | | | |
| 3 | 13/1/16 | transfer function of DC servo motor | II | CR | | |
| 5 | 18/1/16 | " " | II | CR | | |
| 5 | 19/1/16 | transfer function of | | | | |