



TENTATIVE TEACHING PLAN

Name of Teacher: **Dr. Imtiaz Hussain Kalwar**

Subject: **Feedback Control Systems**

Batch: **12ES (Section-I)** Year: **3rd** Term: **1st**

Term Starting Date: **06-01-2014**

Term Suspension date: **27-04-2014**

Sr.#	Topic	No. of Lectures required
1	Introduction to Control Systems	01
2	Open loop & Closed Loop Control Systems	02
3	Transfer Function, Poles & Zeros of System, Stability	01
4	Mathematical Modeling of Electrical Systems	01
5	Mathematical Modeling of Mechanical Systems	03
6	Mathematical Modeling of Electromechanical Systems	03
7	Block Diagrams Representation of a Control System	03
8	Signal Flow Graph	03
9	Standardized Inputs, Class Test#01	01
10	Transient Response	01
11	Transient Response of First Order Systems	01
12	Transient Response of Second Order Systems	04
13	Steady State Errors	03
14	Sensitivity Function	01
15	Frequency Domain Analysis	01
16	Routh Herwitz Stability Criterion	02
17	Bode Plots, Gain & Phase Margins, Class test#02	04
18	Nyquist Stability Criterion, Gain & Phase Margins	03
19	Nichol's Chart, Gain & Phase Margins	02
20	Introduction to State Space Concepts & Terminology	01
21	Formation of State & Output Equations	03
22	Solution of State Equations	03
23	Eigenvalues & Eign Vectors	01
24	State Transition Matrix	03
25	Transfer Function Matrix	01
	Total lectures	52

Signature of Teacher:

Dated: **31-12-2013**

Remarks of DMRC:

Signature of Chairman:

Dated: _____