

EE 650A: Basics of Modern Control Systems (3-0-0-0-9)**1. Course Objectives**

This course aims at imparting the basic concepts of linear and nonlinear systems with focus on modelling of systems, linearization, stability analysis, concepts of controllability and observability, and controller design.

2. Prerequisites

There are no prerequisites for the course. However, the content will be well appreciated by students with knowledge of Classical Control Systems (EE250).

3. Course Contents

The course has broadly three parts:

- **Linear Algebra**
 - Vector space, Linear Independence, Linear combination, Span, Basis, Dimension, Subspace, Linear Transformation, Invariance, Change of basis, Similarity Transformation.
- **Linear Systems**
 - Definition, Examples, Time-varying and Time-invariant systems, State-space representation, Canonical forms, Controllability, Observability, Controller design, Observer design, LQR.
- **Nonlinear Systems**
 - Phase-plane analysis, Linearization, Poincare theorem, Lyapunov stability, Controller Design

4. Instructor

Soumya Ranjan Sahoo (srsahoo@iitk.ac.in)

Abhilash Patel (apatel@iitk.ac.in)

5. Venue (for 2023-24 Summer Sem)

L5

6. Time (for 2023-24 Summer Sem)

MWF: 2.15pm-4.00pm

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