Lecture 1

This lecture covers:

- 1. Course Outline
- 2. Why software engineering: its importance
- Understanding of software engineering's definition
- 4. Understanding of basic concepts of Software Engineering

1. Course Outline

2. Why software engineering

- Organized, systematic, and controlled software development
- Software engineering is concerned with theories, methods and tools for professional software development
- Customer wants low cost and short time for software development

3. Understanding of software engineering's definition

 Software engineering is an engineering discipline which is concerned with all aspects of software production.

O IEEE [IEE93]:

Software Engineering: (1) The application of systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software; that is, the application of engineering to software. (2) The study of approaches as in (1).

4. Basic Concepts

- Software itself
- Software Development life cycle
- System Development life cycle
- Computer Aided Software Engineering
- Software Project Management

- Software Process
- Software Quality Assurance
- Software ConfigurationManagement
- Software Maintenance