

Introduction to Computer

- Lecture # 18

TOPICS

Introduction to Software Engineering
Software Engineering Terms
Principles of Software Engineering

Introduction to Software Engineering

- Software engineering is the systematic application of engineering approaches to the development of software. Software engineering is a direct sub-field of engineering and has an overlap with computer science and management science

Software Engineer

A software engineer is a person who applies the principles of software engineering to the design, development, maintenance, testing, and evaluation of computer software

Basic Principles of Software Engineering

1 .KISS (Keep It Simple, Stupid!)

That just may be the engineer's ultimate motto. Engineers tend to build complex systems which cause problems when it comes to their debugging and maintenance.

2.Consistency

- The principle of consistency is a recognition of the fact that it is easier to do things in a familiar context.
- For example, coding style is a consistent manner of laying out code text

3. Incremental Development

A carefully planned incremental development process can also ease the handling of changes in requirements

4. Modularity

The principle of modularity is a specialization of the principle of separation of concerns.

BEST OF LUCK