

## CS51 SOFTWARE ENGINEERING

### UNIT I

#### SOFTWARE PRODUCT AND PROCESS

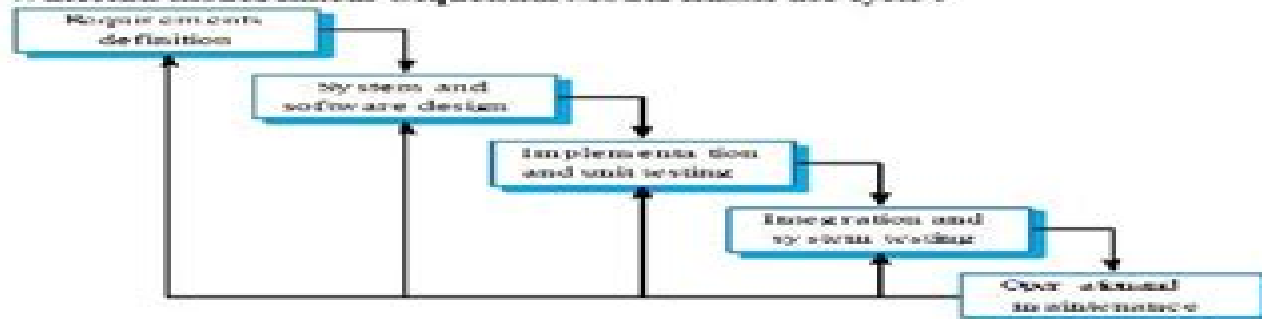
##### Software engineering paradigm:

- The framework activities will always be applied on every project ... BUT the tasks (and degree of rigor) for each activity will vary based on:
  - the type of project
  - characteristics of the project
  - common sense judgment; concurrence of the project team

##### The software process:

- A structured set of activities required to develop a software system
  - Specification;
  - Design;
  - Validation;
  - Evolution.
- A software process model is an abstract representation of a process. It presents a description of a process from some particular perspective.

##### Waterfall model/Linear Sequential Model/classic life cycle :



- **Systems Engineering**
  - Software as part of larger system, determine requirements for all system elements, allocate requirements to software.
- **Software Requirements Analysis**
  - Develop understanding of problem domain, user needs, function, performance, interfaces, ...
  - **Software Design**
  - Multi-step process to determine architecture, interfaces, data structures, functional detail. Produces (high-level) form that can be checked for quality, conformance before coding.
- **Coding**
  - Produce machine readable and executable form, match HW, OS and design needs.
- **Testing**

# Software Engineering Lecture Notes Ppt Pressman

**Camilla Rothe**



**Software Engineering Lecture Notes Ppt Pressman:**

## **Software Engineering Lecture Notes Ppt Pressman** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Software Engineering Lecture Notes Ppt Pressman**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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