

## CS51 SOFTWARE ENGINEERING

### UNIT I

#### SOFTWARE PRODUCT AND PROCESS

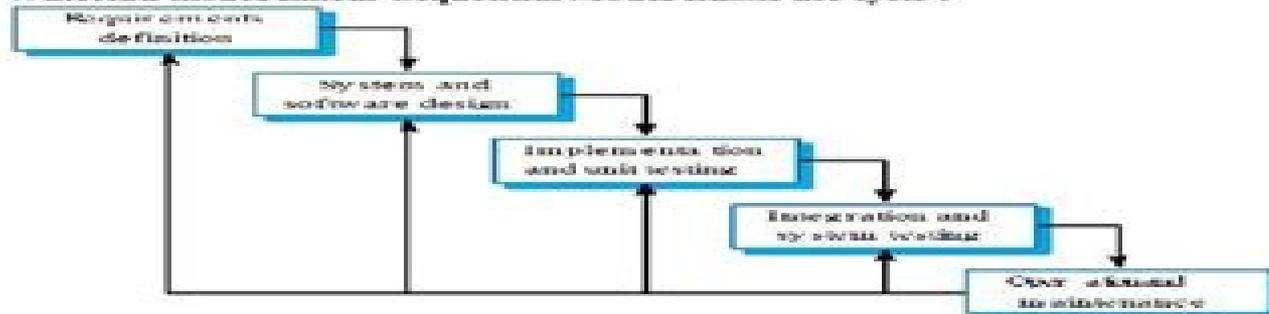
##### Software engineering paradigm:

- 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**

# Diploma 5th Sem Cse Software Engineering Notes

**Lingsheng Yao**



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