

## 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

**K Payea**



## **Diploma 5th Sem Cse Software Engineering Notes:**

## Reviewing **Diploma 5th Sem Cse Software Engineering Notes**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Diploma 5th Sem Cse Software Engineering Notes**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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