

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Trisuman and webtopo

CS1 SOFTWARE ENGINEERING

UNIT 1

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/conscience of the project team

The software process

- A structured set of activities required to develop a software system
 - Specification
 - Design
 - Validation
 - Evaluation
- 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:

```
graph TD; A[Requirements definition] --> B[System and software design]; B --> C[Implementation and software testing]; C --> D[Evaluation and software maintenance]; D --> E[Over-reward maintenance];
```

- 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, interface, ...
 - Software Design
 - Multi-step process to determine architecture, interfaces, data structures, functional detail. Produce 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**

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