

## CS51 SOFTWARE ENGINEERING

### UNIT I

#### SOFTWARE PRODUCT AND PROCESS

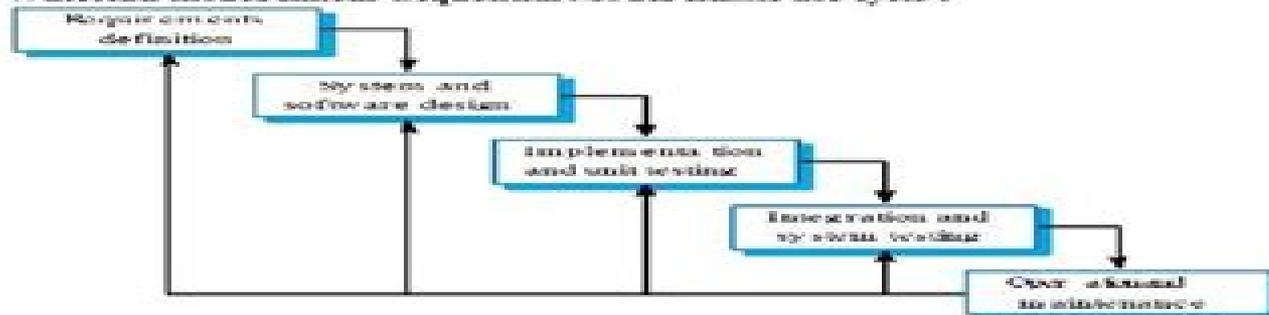
##### Software engineering paradigm:

- 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

**Thomas Griffiths**



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web example a ship sails from a point a on a bearing of  $040^\circ$  for 3km to a point b at b the ship alters course and sails for 5km on a bearing of  $160^\circ$  to a point c find the distance ac and the bearing of a from c cosine rule and bearing problem example jack walks from town a for 10 miles on a bearing of  $20^\circ$

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web may 30 2019 we are learning about bearings with trigonometry we are learning to use trigonometry in questions involving bearings differentiated objectives developing learners will be able to calculate the size of a bearing using trigonometry secure learners will be able to find missing lengths in bearings problems using trigonometry

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web what are bearings used for bearings questions will normally involve the use of pythagoras or trigonometry to find missing distances lengths and directions angles within navigation questions you should always draw a diagram there may be a scale given or you may need to consider using a scale