

CS51 SOFTWARE ENGINEERING

UNIT I

SOFTWARE PRODUCT AND PROCESS

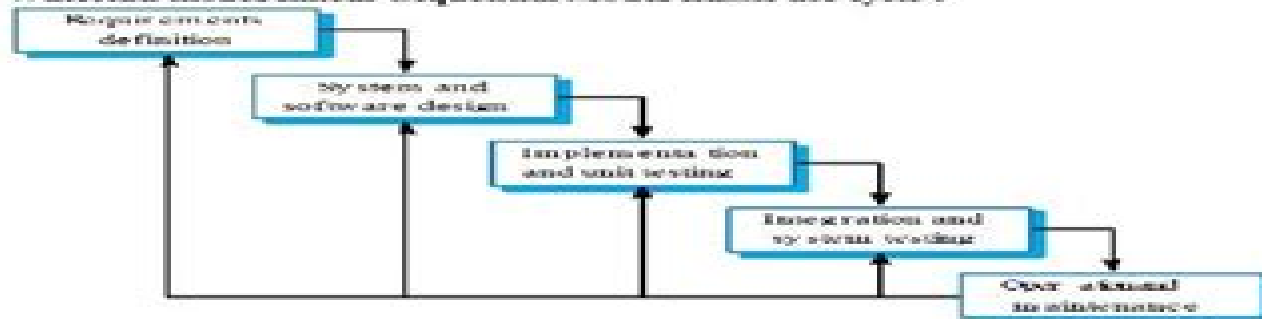
Software engineering paradigm:

- 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

Susan K. Land, John W. Walz



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Physics Courses in Higher and Further Education ,1983 **ASEE ... Profiles of Engineering & Engineering Technology Colleges** ,1998 **Workshop Proceedings Production Process of 3D Computer Graphics** Ralf Dörner,2002 **Cincinnati Magazine** ,2003-04 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **Atlanta Magazine** ,2005-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Who's Who in America Marquis Who's Who, Inc,2002 **Who's who of American Women, 1991-1992** ,1991 Who's who in the Midwest ,1972

Who's who in the West ,1992 **Practical Support for CMMI-SW Software Project Documentation Using IEEE Software Engineering Standards** Susan K. Land,John W. Walz,2005-11-11 Software process definition documentation and improvement should be an integral part of every software engineering organization This book addresses the specific documentation requirements in support of the CMMI SW by providing detailed documentation guidance in the form of Detailed organizational policy examples An Integrated set of over 20 deployable document templates Examples of over 50 common work products required in support of assessment activities Examples of organizational delineation of process documentation This book provides a set of IEEE Software Engineering Standards based templates that support the documentation required for all activities associated with software development projects The goal is to provide practical support for individuals responsible for the development and documentation of software processes and procedures The objective is to present the reader with an integrated set of documents that support the requirements of the CMMI SW Levels 2 and 3 This book is meant to both complement and extend the information provided in Jumpstart CMM CMMI Software Process Improvement Using IEEE Software Engineering Standards Jumpstart provides a detailed mapping of both the CMM and the CMMI SW to the IEEE standards set and provides a logical basis for the material contained within this text It is hoped that this book will provide specific support for organizations pursuing software process definition and improvement For organizations that do not wish to pursue CMMI accreditation this document will show how the application of IEEE Standards can facilitate the development of sound software engineering practices It also comes with a CD Rom

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