

Agenda – Module #10

Chapter 10: Software Design Management, Leadership, and Ethics
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Overview:

Conceptually, design is the process of transforming functional and non-functional requirements into models that describe a technical solution. This transformation process can be viewed as a complex decision problem that must be managed in order to ensure an effective use of resources to deliver quality products that meet requirements. This module describes three major elements that are critical for the success of any major design project: management, leadership, and ethics. It provides a design management framework that describes concepts that facilitate the successful management of complex software. Various project management techniques to monitor and control the resources that are responsible for the completion of design tasks are presented. Several leadership traits that are important for successful results are presented together with important ethical issues present in Software Engineering.

Module Objectives:

- *Understand the definition and importance of Software Design Management.*
- *Describe various techniques to manage the software design phase.*
- *Describe leadership in the context of design management.*
- *Describe relevant ethics items from the Software Engineering Code of Ethics.*

Session 1: Design Management Framework

Slides – Chapter 10 – Session I

Session 2: Planning, Implementation, and Termination

Slides – Chapter 10 – Session II

Session 3: Leadership and Ethics

Slides – Chapter 10 – Session III

Homework #10

Read chapter 10 and answer review questions 1-14. Submit your answers as a word or PDF document.

Quiz #10

See Quiz #10.