Software Engineering

SOFTWARE and SOFTWARE ENGINEERING

- Engineered Software
- Controlled Configuration Item
- History of Software Development
- Software as a Business Opportunity
- Problems in Software Development

- Myths about Software Development
- Approaches to Software Development
- Engineered Software Development Models
- Software Engineering Technology

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Objectives of Module 1

- Present and discuss the idea that software is much more than just code -engineered software is composed of controlled configuration items which
 include documents, data, and code
- Present and discuss the history of software development, including its evolution into a business
- Present and discuss many of the problems with doing software development, particularly when there is more than one person involved
- Present and discuss many myths about software development and explain why some of these myths are fallacies
- Present and discuss several different software engineering paradigms, showing different methods for developing engineered software:
 - Classic "waterfall" method
 - Rapid prototyping
 - Spiral method
 - Fourth generation method
 - Combinations of the above
- Present and discuss some of the technologies used in the support of software engineering:
 - O Computer-Aided Software Engineering (CASE)
 - Ada programming language