CEN-5087 Software and Data Modeling

Catalog Description
Essential software and data modeling methods and techniques such as UML, XML, and ER. This course covers basic and advanced modeling concepts: how to model, how to manage complexity with patterns and tools.

Prerequisites
SCIS Graduate Standing

Type
Required for MSIT
Cannot be an Elective for MSCS, MSTN, and Ph.D. students

Course Objectives
Students will learn the core set of skills required during software development life cycle including project initiation and management, requirement gathering, analysis and design.

Topics
- Introduction
- Project Initiation
- Project Management
- Requirements gathering
- Analysis
  - Functional Modeling
  - Object Modeling
  - Dynamic Modeling
- Design
  - Class design
  - Data Design
  - Interface Design
  - Architecture Design

Textbook

Last Update
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