

CSE471: System Analysis and Design Syllabus

- Introduction of system analysis and design (**Week 1 – 28/5/22 to 3/6/22**)
 - a. Introduction to elements of system analysis and design
 - b. Software development lifecycle.
 - c. System development methodologies
 - i. Waterfall
 - ii. Dev-ops
- Feasibility Analysis (**week 2 – 4/6/22 to 10/6/22**)
 - a. Business value analysis
 - b. System request
 - c. Types of feasibility study
- Requirement determination (**week 3 – 11/6/22 to 16/6/22**)
 - a. Requirements definition
 - b. Types of requirement
 - c. Requirements analysis strategies

Assignment 1 – 11/6/22

Quiz 1 – 16/6/22

- Design with Behavioral UML(**week 4, 5 – 18/6/22 to 1/7/22**)
 - a. Use case diagram (18/6/22)
 - b. Activity diagram (23/6/22)
 - c. Sequence diagram (25/6/22)
 - d. State machine diagram (25/6/22)

Assignment 2 (25/6/22)

Quiz 2 (30/6/22)

- Design with Structural UML diagram (**week 6 – 2/7/22**)
 - a. Component diagram
 - b.
- Design with Structural UML diagram (**week 6 – 7/7/22**)
 - a. Data flow diagram

Week 8 is Midterm examination

Assignment 3 (7/7/22)

Quiz 3 (21/7/22 or 23/7/22 or 28/7/22)

- Program design (**week 10 – 30/7/22 to 5/8/22**)
 - a. Moving from logical to physical process models
 - b. Program design
 - c. Structure chart design
 - d. Program specification
- Data Storage Design (**week 10 - 30/7/22 to 5/8/22**)
 - a. Data storage formats
 - b. Moving from logical to physical data models
 - c. Optimizing data storage

- UI design (**week 11 – 6/8/22 to 12/8/22**)
 - a. Principles of user interface design
 - b. User interface design process
 - c. Navigation design
 - d. Input/output design

Assignment 4 (13/8/22)

Quiz 4 (13/8/22)

- Deployment and release management (**week 1- 20/8/22**)
 - a. Deployment design
 - b. Release management
 - c. System documentation (CMMI)

Final Exam

Marks Distribution

Assignment	10
Quiz (Best 3 out of 4)	10
Class Participation	5
Midterm	20
Final	30
Lab	25