System Analysis and Design Lecture 1

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- CSE 325 System Analysis and Design Theory
- SE 326 System Analysis and Design Laboratory
- Jobs in Industries
- Systems Analysis and Design
- References



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Instructor Notes

About Me

Instructor: Supta Richard Philip

Designation: Senior Lecturer

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Course Notes and Books

Reference Book

- Essential Books (Text Books): System Analysis Design UML Version 2.0 An Object-Oriented Approach, Alan Dennis, Barbara Haley Wixom and David Tegarden, Third Edition
- Recommended Reference Books: Whitten Bentley: System Analysis Design Method.

Assessment Policies

- Mid Term Exam 30%
- Final Term Exam 40%
- Quizzes- 10% (Best 1 out of 2)
- Assignments 10% (Best 1 out of 2)
- Attendance and others- 10%



Course overview

- Introduction to Systems Analysis and Design
- Project management and Requirements
- Analysis
- Design
- Implementation



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Assessment Policies

- Mid Term Exam 20%(solve one problems)
- Final Term Exam 30%(solve one problems)
- Project and Presentation- 30%
- Assignments 10% (Best 1 out of 2)
- Attendance and others- 10%



Project and Presentation

- Everyone should have one github account.
- Make a group of three members.
- Proposal and Presentation(Before mid term).
- Report, presentation and demo(Before Final Term).

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Role: Systems Analyst

- OOP and Design Pattern.
- Agile development methodologies.
- Work with Java 8, Scala, J2EE.
- Work in Devops (Git, Docker etc).
- Software Development Process and Architecture, Software Requirements, Software Architecture

Role: Data Scientist

- OOP and Design Pattern.
- AI, Machine learning.
- Agile development methodologies.
- Work with Python, Java 8, Scala.
- Work with big data, Hadoop and Spark.
- Work in Devops (Git, Jenkins, Docker, ansible etc).

Role: Java Application Developer

- OOP and Design Pattern.
- Core Java 8, Core Spring, REST, test frameworks (JUnit, Mockito, Wiremock etc), Maven, databases (Oracle, Postgres), version handling (GIT), Amazon Web Services

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Introduction to Systems Analysis and Design

- Systems development life cycle (SDLC)
- Planning
- Analysis
- Design
- Implementation



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References

Systems Analysis and Design with UML Version 2.0: An Object-Oriented Approach. by Alan Dennis (Author), Barbara Haley Wixom (Author), David Tegarden (Author). Third Edition

