SLIIT

Discover Your Future

# Software Engineering (IT2020)
# 2022

## Module Overview

# Course Web Enrollment Key

## Enrollment Key: IT2020

# Module Focus

**The focus of this module is:**

- Object Oriented Analysis and Design
- Using the Unified Modeling Language(UML)
- Tools for Object-Oriented Software Engineering.
- Applying Design Patterns
- Software Testing
- Supportive Processes

# SE Tentative Lecture, Tute, Lab and Assessment Schedule - 2022- Semester II

## SE Tentative Lecture. Tute, Lab and Assessment Schedule - 2022- Semester II

| week | Dates | Lecs | Tute | Labs | Group Assignment | Online Quiz (Structured) |
|---|---|---|---|---|---|---|
| 1 | July 25 - July 31 | Introduction and Object Diagram | No tutes | No Labs | | |
| 2 | Aug 01 - Aug 07 | Sequence diagram - part 1 | Tute 1 - Object Diagram | Lab1 - Object Diagram - G1 | | |
| 3 | Aug 08 - Aug 14 | Sequence diagram - part 2 | Tute 1 cont.. | Lab1 - Object Diagram - G2 | Assignment group submission | |
| 4 | Aug 15 - Aug 21 | Communication Diagram | Tute 2 - Sequence & Communication Diagram | Lab2 - Sequence Communicatio diagram - G1 | Assignment Topic allocation and publish | |
| 5 | Aug 22 - Aug 28 | State chart diagram | Tute 2 cont... | Lab2 - Sequence Communicatio diagram - G2 | Assignment Handover | |
| 6 | Aug 29 - Sep 04 | Physical Diagram - Part 1 | Tute 3 - Statechart diagram | Lab3 - State Chart Diagram - G1 | | |
| 7 | Sep 05 - Sep 11 | Physical Diagram - Part 2 | Tute 3 cont... | Lab3 - State Chart Diagram - G2 | | |
| 8 | Sep 12 - Sep 18 | Mid Exam week | | | | |
| 9 | Sep 19 - Sep 25 | Software Testing | Tute 4 - Physical Diagram | Lab4 - Physical Diagram - G1 | | Online Quiz (Structured) - For All Students in all campuses |
| 10 | Sep 26 - Oct 02 | Design pattern - part I | Tute 4 cont... | Lab4 - Physical Diagram - G2 | | |
| 11 | Oct 03 - Oct 09 | Design pattern - part II | Tute 5 - Testing | Lab5 - Testing - G1 | Assignment submission | |
| 12 | Oct 10 - Oct 16 | Suoportive processes | Tute 5 cont... | Lab5- Testing - G2 | | |
| 13 | Oct 17 - Oct 23 | Coverup any missed lectures / Revision | Tute 6 - Design Patterns | Lab6- Design pattern - G1 | | |
| 14 | Oct 24 - Oct 30 | Revision | Tute 6 cont... | Lab6- Design pattern - G1 | | |

**Note:** Due to supplementory exams at the middle, the same schedule will drag further. So dates of the weeks may be change

# Assessment Criteria

- Continuous Assessments – 40%
  - Mid Term Examination (Online Quiz – MCQ) - 20%
  - Group Assignment - 10%
  - Online Quiz (Structured) - 10%
- Final Examination - 60%

**The final examination will be a three-hour comprehensive exam based on the lecture materials and practical assignments covered during the semester.**

# Continues Assessments

- Midterm Examination – 20%
  - Typically, conduct in the 8th week of the semester (sometimes may change).
  - On-campus examination.
  - One-hour moodle quiz (netexam.sliit.lk) with MCQs.
  - Sections covered and the number of questions in the exam will inform in due course via course web.
  - Exam will contain minus marks for incorrect answers.

# Continues Assessments

- Group Assignment – 10%

| Task | Week of the semester |
|---|---|
| Assignment Group Submission | 3rd Week |
| Assignment Topic allocation and publish | 4th Week |
| Assignment Handover | 5th Week |
| Assignment Deadline | 11th Week |

- Group Capacity – Four Members maximum
- The Same topic will be assigned for both the SE group assignment and OOP group project.

# Continues Assessments

- Group Assignment – 10%

- Grouping will be handled by the SE module and the same groups will be used for the OOP project as well.
- Assignment Group Details Submission Format will be uploaded on the SE course web page and submission links will appear in due course.
- Group Leader needs to submit the assignment to the respective link of the batch on or before the due date.
- Pro-rata students (Registered only for OOP) need to register under OOP module seperatly.

# Continues Assessments

- Lab Assessment – 10%
  - Online exam
  - A moodle quiz with structured questions via course web.
  - Will be conducted in the 9th week of the semester
  - Sections covered and the number of questions in the exam will inform in due course via course web.

# Reference Books

- Alan Dennis and Barbara Haley Wixom, "Systems Analysis and Design: An Object-Oriented Approach with UML", 5th edition, Wiley ,2015

- Elisabeth Freeman, Eric Freeman, Bert Bates, Kathy Sierra , Elisabeth Robson, "Head First Design Patterns", 1st edition, O'Reilly, 2004

# Thank you!