

# Sri Lanka Institute of Information Technology

## Faculty of Computing

SE1020 - Object-Oriented Programming

Year 01 and Semester 02

# Introduction to the Module

# Learning Outcomes

- Apply Object-Oriented Programming (OOP) concepts to develop Java applications.
- Utilize Java features and error-handling techniques for application development.
- Design and implement object relationships using UML class diagrams.
- Apply best practices to ensure maintainable and scalable object-oriented software.

# Key Personnel to Contact

- Ms. Thilini Jayalath                      Lecturer in charge
- Ms. Shalini Rupasinghe                Co-Lecturer
- Lead Instructor  
    Mr. Nushkan Nisme (Assistant Lecturer, Malabe)
- Handling the Git repositories  
    Mr. Eishan Weerasinghe (Assistant Lecturer, Malabe)

# Lecturer Panel

## Malabe

- Dr. Kalpani Manathunga
- Dr. Namalie Walgampaya
- Mr. Jeewaka Perera
- Ms. Thilini Jayalath
- Ms. Hansi de Silva
- Ms. Ishara Weerathunga
- Ms. Shalini Rupasinghe
- Ms. Sadeepa Dushanthi
- Ms. Samali Amarasekara

# Lecturer Panel

## **Metro**

- Ms. Anjalie Gamage

## **Matara**

- Ms. Suriyaa Kumari

## **Kandy Uni**

- Ms. Gihani Gunarathna

## **Nothern Uni**

- Ms. Theevika Arumaitthurai

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## **Kurunegala**

- Mr. Pubudu Senanayake

# Delivery

- Lectures
  - 2 Hours per week
- Tutorial
  - 1 Hour per week
- Labs
  - 2 Hours per week
- Workshops
  - few workshops will be conducted online to provide support for the group project.

# Assessment Criteria

- Continuous Assessments 50%
  - Assignment 1 - Practical Test 10%
  - Assignment 2 - Group Project 10%
  - Mid Term Examination 20%
  - Assignment 3 - Lab Submissions 10%
- Final Examination (Computer based) 50%



# Module Content

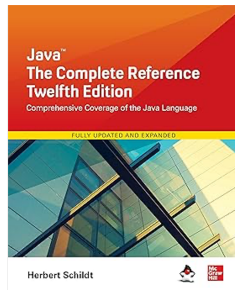
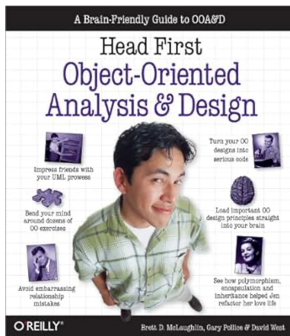
- Introduction to OOP
- Identifying Classes and Objects
- OOP Concepts
- Relationships and Class Diagram
- Exception Handling
- Strings, Generics, and Collections
- SOLID principles and Best Practices

# Academic Integrity Policy

- Are you aware that following are not accepted in SLIIT???
- **Plagiarism** - using work and ideas of other individuals intentionally or unintentionally
- **Collusion** - preparing individual assignments together and submitting similar work for assessment.
- **Cheating** - obtaining or giving assistance during the course of an examination or assessment without approval
- **Falsification** – providing fabricated information or making use of such materials
- From year 2018 the committing above offenses come with serious consequences !
- See General support section of Courseweb for full information.

# References

H. Schildt, Java: The Complete Reference, 12th edition, McGraw Hill, 2021, ISBN 1260463419



M. Brett, G. Pollice, and D. West, Head First Object-Oriented Analysis and Design: A Brain Friendly Guide to OOAD, O'Reilly Media, Inc, 2007.

# Thank You!