

**Department of Software Engineering** 

# Software Requirements Analysis ITSE311 -- F2023

INTRODUCTION

## MODULE & LECTURER & LECTURES TIMES

- ► ITSE311 : Software Requirements Analysis
- ▶ Lecturer : Lecturer Fatima Ali Ben Lashihar
- ▶ Group A
  - ▶ Saturday ----- 10:00 11:30 (Room 2/13)
  - ▶ Wednesday ----- 08:30 10:00 (Room 2/13)

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## DESCRIPTION OF MODULE CONTENT

- This course will teach students how to derive and develop software requirements that are measurable, testable and lead to a compliant software design and implementation.
- Students will learn how to elicit, analyze, specify, and validate <u>functional and</u> non-functional software requirements.
- Students will develop software requirements models and specifications that capture the customer / user's needs.

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#### MODULE OBJECTIVES

- Compare and contrast functional software requirements from nonfunctional software requirements.
- Elicit, analyze, specify, and validate software requirements for a software product.
- Describe and exercise software requirements management processes and activities, including establishing a software requirements baseline and evaluating/managing changes to that baseline.
- Develop test plans and procedures used to verify that the software implementation meets it's specified requirements

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#### STUDENT LEARNING OUTCOMES

- Derive and trace software requirements from higher level system requirements using a variety of common elicitation techniques such as interviews, workshops, document analysis, prototyping, and other similar strategies used in industry.
- <u>Analyze software requirements for implementation feasibility; ensuring the requirements are quantifiable, verifiable and satisfy the customer's business or user objectives.</u>
- Translate user needs into software requirements via models/diagrams and written specifications suitable for comprehension, review, and implementation.
- Develop acceptance criteria and tests to validate that the developed product meets specified requirements that satisfy customer needs and achieves business objectives.
- Perform a software acceptance / qualification test\_to verify that a software product implementation meets its specified software requirements.
- Manage software requirements by establishing a requirements baseline and evaluating/tracking any proposed changes to that baseline.

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## MODULE MATERIALS

- Required Textbook
  - Software Engineering for Software and Systems

3rd Edition

Author: by Phillip A Laplante



- Recommended Textbook
  - Software Requirements

3rd Edition

Author: Karl Wiegars and Joy Beatty



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## **ASSESSMENT**

Mid-term Exam	25%
Assignment	25%
Final Exam	50%

▶ No grades for Presence, but zero as a whole if absent more than 25% of the semester.

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## CONTACT ME!!!

#### Please send:

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