



University of Tripoli
Faculty of Information Technology



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)

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 functional and 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 non-functional 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 its 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.
- ▶ Analyze software requirements for implementation feasibility; ensuring the requirements are quantifiable, verifiable and satisfy the customer's business or user objectives.
- ▶ 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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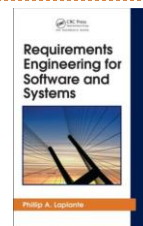
MODULE MATERIALS

▶ 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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