



# SOFT3112 - Software Development Practice

Spring 2025



# Course Objective

- **Instructor:** Cahit Çokal
  - **Teaching Assistant:** TBA
  - **Online Medium:** <https://isikuniversity.mrooms.net/>
  - **Reading Recommendations:** Agile Manifesto and Scrum Guide (versions 2017 and 2020)
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- Software Development Life Cycle (SDLC)
  - Project Organization and Communication
  - Agile Software Project Management Techniques and Scrum Framework
  - Developing Large Size Software Products as a Team Member



# Course Outcomes

As the outcomes of this course, you will learn how to...

- Create a design model satisfying the requirements using OO approaches
- Create an agile way of working environment
- Work with teams and play different roles
- Manage changing customer requirements, gather, analyze, clarify, refine, plan, release
- Use necessary technologies for configuration, development environment, testing purposes while dealing with a real world problem
- Use supplementary techniques for quality, consistency and security like needs



# Course Structure

## LECTURES

- New topics every week
- Interactive activities and discussions

## LABS & HOMEWORKS

- Teams will be formed
- Select a product and develop
- Define product vision and product goals
- Create initial product backlog and refine continuously
- Plan sprints, define the sprint goals, create sprint backlogs, execute and demonstrate
- Develop new features every sprint and create a new increment
- Continuously improve, self organization, cross-functionality
- Team interactions required



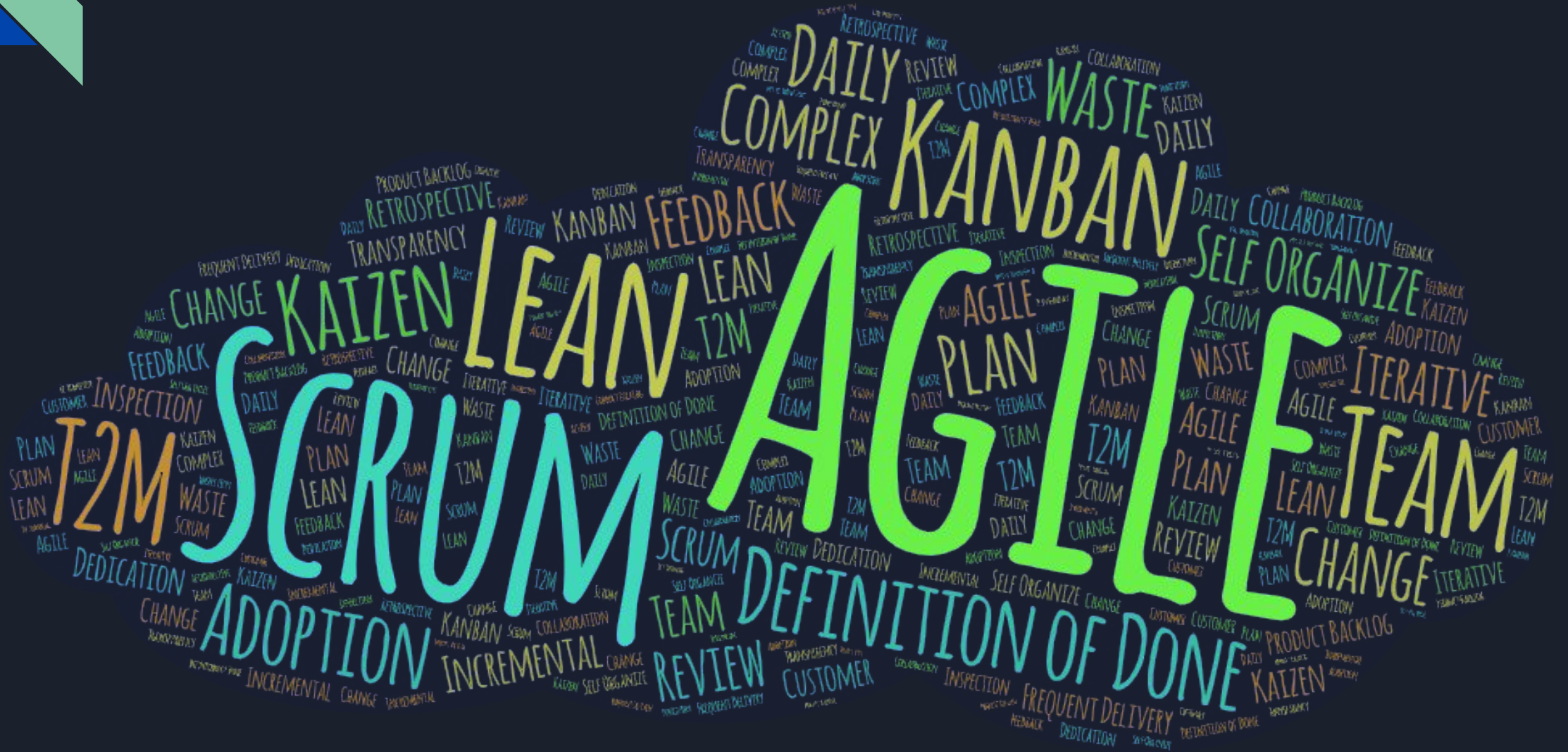
# Grading Policy

Expectation	Weight
Requirement Analysis & Documentation (RAD)	20%
System Design & Documentation (SDD)	15%
Object Design & Documentation (ODD)	15%
Project Management, Reviews & Demonstrations	50%



# Candidate Product Topics

- Flight Ticket Sales Application - B2C or B2B
- Bus Ticket Sales Application - B2C or B2B
- Hotel Accommodation Application - B2C or B2B
- Rent a Car Application - B2C or B2B
- Travel Planning Application - B2C or B2B
- Bank Applications (Online and APIs)
- Telecom - CRM Application –B2B (Dealers)
- Telecom - CRM Application –B2B (Customer Care)
- Telecom - CRM Application –B2C (Online SelfCare)
- Company - HR Application
- Company - Administrative Affairs Application
- Company - Occupational Health and Safety Application
- Real Estate Listing Site
- Career Posting Site



Thanks... 