ÇANKAYA UNIVERSITY

Software Engineering Department

SENG 491 – 492 Graduation Project

Management Plan

Contents

1 Introduction

1.1 Purpose

The purpose of this document is to describe how the Graduation Project I (SENG 491) and II (SENG 492) will be managed by students and faculty members.

1.2 Overview

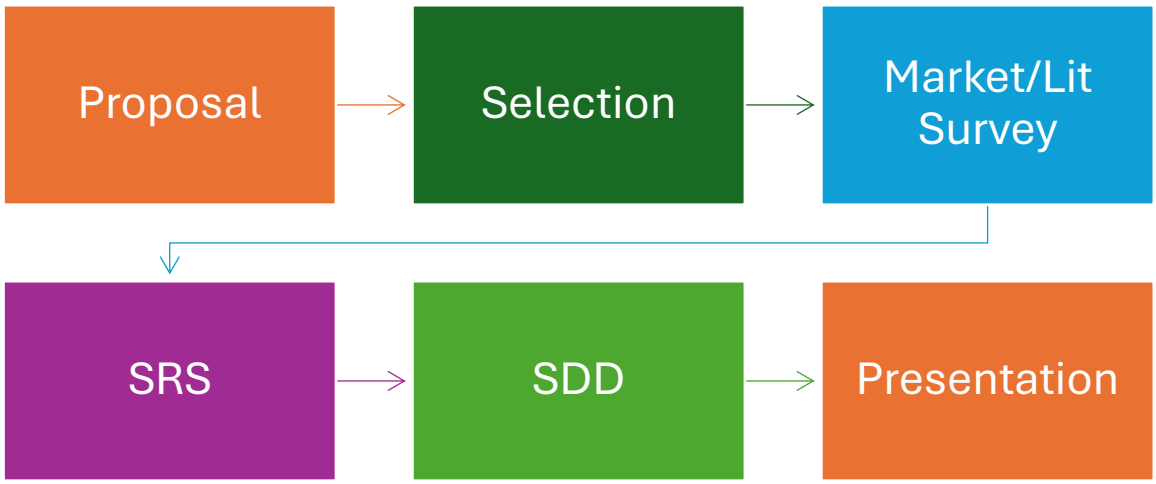
Department of Software Engineering students are required to take SENG 491-492 Graduation Project I-II courses in the Fall and Spring semesters of their fourth year. The main aim of these courses is to create an innovative solution to a complex problem and implement this solution as a team. In these courses, students are expected to prepare a needs analysis document and design during the first semester, implement test the project. Students develop and present the project based on the knowledge gained during their undergraduate education.

2 Process

Within the scope of these courses, it is expected that a team of students will develop an industry-oriented project under the guidance of a faculty member.

2.1 SENG 491

The main objective of this course is to analyze the requirements of the project by introducing an innovative solution to a complex problem, to complete the project design, and to report these steps according to the standards.



2.1.1 Proposal

Graduation projects can be proposed by faculty members, students, and companies using **Project_Proposal_Form**. Once approved by the department, they can be selected by the students.

2.1.2 Selection

Students will form a team and select a project as well as a project advisor (supervisor). The teams will have three students. Depending on the complexity of the project, the teams can have two or four students. If the team contains students from another department, at least two of the team members will be from the Software Engineering department. Once the team is formed and an advisor agrees to supervise the project, **Project_Selection_Form** should be filled and submitted to the Project Coordinator for approval.

Each team will have a weekly meeting with their supervisor. Students are expected to fill out a **Project_Tracking_Form** which will be signed by the student and the advisor.

2.1.3 Market/Literature Survey

Each project starts with a Market/Literature research to examine similar products available in the market and state what the contribution of the project will be. The results should be presented using the **Literature-Market Research** template.

2.1.4 Software Requirements Specification (SRS)

The requirements of the product should be specified using the **SRS** template which is based on IEEE standards.

2.1.5 Software Design Document (SDD)

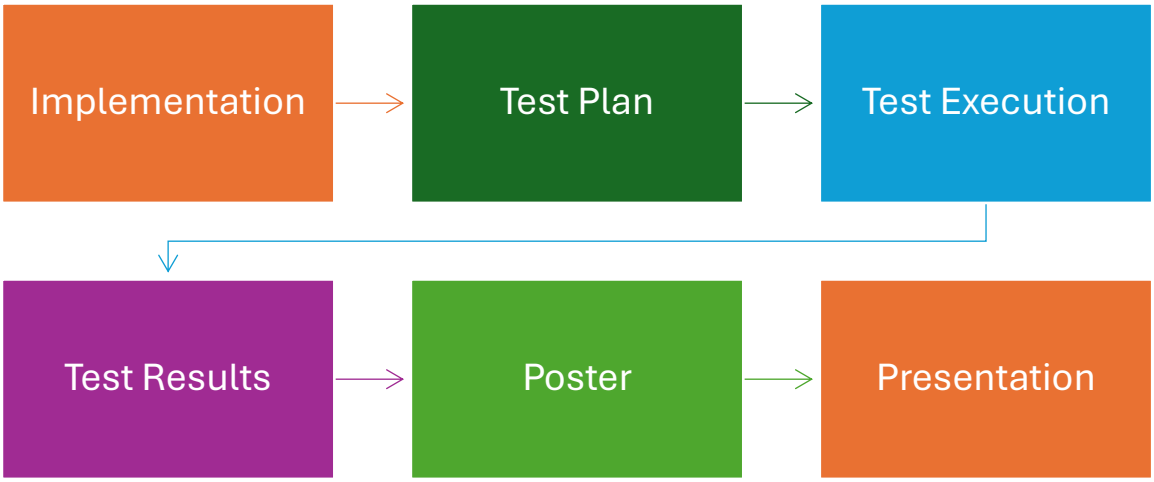
The design of the product should be specified using the **SDD** template which is based on IEEE standards.

2.1.6 Presentation

At the end of the semester, the work done by the team should be presented to their advisor and/or a jury of faculty members.

2.2 SENG 492

The main objective of this course is to implement the project and measure the success of the product by planning and executing user tests. In addition, it is expected that the deficiencies will be continuously improved throughout the project by analyzing the results obtained from the user tests.



2.2.1 Implementation

According to the SRS and SDD prepared in the previous semester, the product should be developed. The development/coding environment should be described using the **Development Environment** template.

2.2.2 Test Plan

A test plan should be written along with test design specifications and test cases using the **TP and TDS** and **Test Case Template** which is based on IEEE standards.

2.2.3 Test Execution

Once the product is fully developed and the test plan is ready, the test cases should be executed. If any of the test cases fail, the product should be corrected accordingly and retested.

2.2.4 Test Results

The final results of the test execution should be documents using the **Test Results** template.

2.2.5 Report

A complete report of the project including the updated documents from previous semester should be submitted both electronically and as spiral bound hard copy for evaluation. Use the **Project Report** template.

2.2.6 Presentation

A final project presentation will be made to a jury of faculty members. Please use the **Project_Presentation** template.

2.2.7 Poster

A poster for the project should be prepared using the **Project Poster** template A Turkish version of the presentation should also be prepared using the **Project Poster TR** template.

3 Weekly Schedule

Each Semester is planned for 14 weeks. Students are expected to meet with their project advisors to discuss the progress of the project. **Project_Tracking_Form** will be signed by the team members and the project advisor.

A sample schedule is provided here, each project team should prepare a plan according to their workflow.

3.1 SENG 491

SENG 491	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14
Proposal														
Selection														
Survey														
SRS														
SDD														
Presentation														

3.2 SENG 492

SENG 492	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14
Implementation														
Test Planning														
Test Execution														
Update SRS & SDD														
Prepare Presentation														
Prepare Poster														
Prepare Report														
Presentation														