

GRADUATION PROJECT IMPLEMENTATION PRINCIPLES

Format

The project file will be written in accordance with the Faculty of Engineering writing format.

A) Project Stages

- a. The Head of the Department holds an informative meeting in March or April of each year with the students in their 3rd year and the students who will take the Graduation Project I-II courses the following year.
- b. The date, time and place of the meeting are announced by the Head of the Department on the Department WEB page.
- c. The project topics that the students will do in the Graduation Project I-II courses are announced by the Head of the Department on the Department WEB page in April.
- d. The students who will take the Graduation Project I-II courses the following year make their topic selections.
- e. Students are assigned an academic advisor by the Head of the Department according to the subject they choose.
- f. Students form project groups in consultation with their assigned advisors and determine their topics.
- g. A Graduation Project group consists of at least 2 and at most 4 students. Groups can also be formed to include students from different departments.
- h. Student groups work on their determined topics until the beginning of the next academic year or semester and prepare a project application file in TÜBİTAK 2209/A-B format and submit their applications before the application deadline.
- i. During the semester (Fall or Spring Semester), students prepare a report for Graduation Project I by doing the work specified in the "*B. The content of the project file*" section and present their work in front of the evaluation jury and the audience. All students in the Project Group present their work in turn. Those who apply for Tübitak student project support are given 10 points, and groups within the scope of support are given 20 points extra. Total points cannot exceed 100.
- j. The prepared report and presentation performances are evaluated and a grade is given to the students in the group by the jury. The evaluation process is done on a form prepared by the Head of the Department and signed by the jury members.
- k. Students continue their work in the Graduation Project II course in the following semester and produce a prototype at the end of the semester.
- l. Students continue the report prepared for the Graduation Project I course and complete the project file in the desired format as a Graduation Project booklet to cover the Graduation Project II course and submit the file with the upload interface provided on the Department WEB page.
- m. At the end of the semester, the prototype developed and realized within the scope of Graduation Project II will be exhibited as a poster and presentation open to the audience in a project exhibition organized by the Department Head.

- n. The Project Evaluation Jury will go around the project exhibition and make the necessary evaluation on the form and sign it. Groups within the scope of Tübitak student project support are given 20 extra points. Total points cannot exceed 100.
- o. The name of the project exhibition will be "My First Product Exhibition".

B. The Content of the Project File

Section 1. Introduction: The importance of the project topic will be emphasized, literature review will be done, innovative aspects and approaches will be highlighted, methods will be summarized, widespread impact will be explained, possible standards to be used will be listed, a work schedule will be created to cover the Graduation Project I and Graduation Project II courses, risk analysis of the work packages will be done. Each of the students in the group will be the leader of the work packages and will manage the work package to ensure that the work package is completed on time. The content of this section will be in the TUBITAK 2209/A-B project format.

Section 2. Theoretical Background: The basic information, technologies, formulas, diagrams and other drawings that constitute the theoretical infrastructure of the project will be explained. In this section, quotations can be made from other sources by citing the source. However, these quotations should not be in the form of paragraphs or paragraphs. The total amount of citations should not exceed 20% of the entire booklet.

Section 3. Design: The design drawings, calculations and software used for the project should be given and explained in this section. This section should also include a list of materials and equipment to be used, a financial analysis and a discussion of the legal responsibilities that may arise both during and after the production of the project.

Section 4. Simulation Studies: A simulation of the system designed in the project should be carried out to show whether the expected results can be achieved.

Section 5. Experimental Studies: This section will cover the realization and testing of the Prototype to be made within the scope of Graduation Project II. This section is left blank for Graduation Project I.

Section 6. Results: The results obtained in Chapter 4 within the scope of Graduation Project I are explained and interpreted with graphs under this section. When Graduation Project II is completed, the experimental results are also presented and explained with their related graphs. Comments are made.

Section 7. Conclusions: An evaluation of the work done is made. Suggestions for the future studies are presented.

References: References are listed according to TUBITAK reference writing format. IEEE reference format can also be applied according to the decision of the Department Board.

Appendices: IEEE Ethics Form, Student Ethics form, Restrictions form, Interdisciplinary study form, software codes, and a short bio of the students in the group.