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| **STUDENT** | Name and Surname | : |  | | Student No: |  |
| Department | : |  | | | |
| Thesis Supervisor | : |  | | | |
| Contact Number | : |  | E-Mail Address : |  | |

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| **INFORMATION REGARDING THE PHD THESIS** | | | |
|  | | | |
| **Thesis Title** |  | | |
| **Preparation of the thesis in English** | EYK decision number: | Student and supervisor documents attached | ABD board decision attached |
| **Thesis Scope** | Theoretical study  Applied laboratory study / experimental study  **Applied Study Involving Industry/Public Cooperation**  ***(If there is no protocol with the institution/organization, please fill out*** [***FBE-FR-Form O20***](https://www.ktu.edu.tr/dosyalar/fbe_746aa.pdf) ***and attach it to this form)*** | | |

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| **IF THE THESIS IS AN APPLIED STUDY INVOLVING INDUSTRY/PUBLIC COOPERATION** | |
| Sector/field of activity related to the thesis |  |
| Name of the industrial organization/public institution where the thesis will be partially/completely conducted |  |
| Has a protocol been made with the industrial organization for conducting the thesis study? | Yes (Protocol Date: ….. /…….. /202x )  No |

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| **IF THE THESIS STUDY IS CARRIED OUT WITHIN THE SCOPE OF AN INDUSTRY-ORIENTED PROJECT; PROJECT TYPE, PROJECT LEADER, AND BUDGET INFORMATION** |
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| --- | --- | --- | --- | --- |
| Have you received any financial support for your thesis study from any source? | Yes | | | No |
| BAP | TÜBİTAK | Other |

|  |  |  |  |  |
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| If you have not yet applied for support, do you plan to submit your planned thesis study as a research project? | Yes | | | No |
| BAP | TÜBİTAK | Other |

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| Do you think that the study detailed in the thesis proposal has the potential to turn into a patent? | Yes  No |

**(This form must be submitted to the Graduate School of Natural and Applied Sciences Directorate together with the PhD Thesis Proposal Oral Defense Form (Form D4).)**

**The PhD Thesis Proposal form is expected to be prepared in Arial 9 font and, taking into account the explanations provided under each heading, must be at least 12 pages (excluding appendices) and should not exceed a total of 25 pages. Files stored/shared on file storage systems and/or web pages should not be linked to share thesis content outside the boundaries of the application form. The form should not be left in track changes mode and must not contain comments. The content of the form should not be shared separately as an attachment in a different file. All information regarding the thesis proposal must be included in the relevant sections of the form, and the final version of the form must be uploaded to the application system as a single file.**

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| **Thesis Title:** |

# SUMMARY

It is expected that the Turkish and English abstracts outline the (a) originality, (b) methodology, (c) management, and (d) broader impact of the thesis. Each abstract should be limited to 600 words. It is recommended that this section be written last.

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| **Thesis Summary** |
| **Keywords:** |

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| **Tez Başlığı:** |

# ÖZET

Türkçe ve İngilizce özetlerin tezin (a) özgün değeri, (b) yöntemi, (c) yönetimi ve (d) yaygın etkisinin ana hatlarını kapsaması beklenir. Her bir özet 600 kelime ile sınırlandırılmalıdır. Bu bölümün en son yazılması önerilir.

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| **Tezin Özeti** |
| **Anahtar Kelimeler:** |

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| **1. ORIGINALITY** |

**1.1. The Importance of the Subject and the Originality of the Thesis:**

The scope and significance of the subject addressed in the thesis proposal are explained through a critical evaluation of the literature, supported by qualitative and/or quantitative data. It should be clarified how the thesis will address a gap in the literature or develop a solution to a particular problem, and what kind of original conceptual, theoretical, and/or methodological contributions it will make to the relevant field(s) of science or technology, distinct from previous studies. References should be provided in Appendix-1 in accordance with the guidelines on the page: <https://tubitak.gov.tr/tr/duyuru/bibliyografik-verilerin-duzenlenmesi>.

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**1.2. Research Question and/or Hypothesis:** The problem(s) addressed by the thesis proposal, along with the research question and/or hypothesis, are clearly stated.

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**1.3. Aim and Objectives**

The aim and objectives of the thesis proposal are explained in a clear, measurable, realistic manner, and must be achievable within the duration of the thesis.

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| **2. METHODOLOGY** |

The methods and research techniques to be applied in the thesis (including data collection tools and analysis methods) are explained in detail with references to the relevant literature and the reasons for their selection. It is demonstrated to what extent the chosen methodology is suitable for achieving the aims and objectives of the thesis. The methods section should include elements such as research design, dependent and independent variables, and statistical methods. If any preliminary studies related to the thesis topic have been conducted, information about them is expected to be provided. A flowchart of the methodology may be presented, taking into account the design of the research.

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| **3. THESIS MANAGEMENT** |

1. **1. Management Structure: Work Plan and Work Packages**

**3.1.1. Work Plan (Gantt Chart)**

The time intervals in which the thesis work packages (WPs) will be carried out are presented in the “Work Plan.” Literature review, thesis preparation and writing stages, publication of thesis results, article writing, and material procurement should not be presented as work packages.

**WORK PLAN (\*)**

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| **WP No** | **WP**  **Name /** **Importance for the Success of the Thesis (\*\*)** | **MONTHS** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **1st Semester** | | | | | | **2nd Semester** | | | | | | | | **3rd Semester** | | | | | | **4th Semester** | | | | | |
| **2** | **4** | **6** | **8** | **10** | **12** | | **14** | **16** | **18** | **20** | **22** | **24** | **26** | | **28** | **30** | **32** | **34** | **36** | **38** | **40** | **42** | **44** | **46** | **48** |
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**(\*)** The rows in the schedule can be expanded and duplicated as needed.

**(\*\*)** Numerical values between 0–100 should be entered in this section, and the column total must equal 100.

**3.1.2. Work Packages**

The following Work Package (WP) Table is prepared for each WP. In order to monitor the successful completion of each WP, the objective, the responsible person(s), success criteria, intermediate outputs, and risk management of each WP are presented.

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| **WORK PACKAGE TABLE (\*)** | | |
| **WP No: 1** | **WP Title:** | |
| **WP Objective:** | | |
| **Tasks/Activities to be Carried Out within the WP:** | | **Responsible Person(s) and Their Contributions to the WP (\*\*):** |
| **Success Criteria:** *The measurable and traceable qualitative and/or quantitative criteria under which the relevant work package will be considered successful are specified.* | | |
| **Intermediate Outputs:** *Information is provided regarding the intermediate outputs anticipated for the WP that concretely demonstrate the achievement of the success criteria (e.g., technical report, list, diagram, analysis/measurement results, algorithm, software, questionnaire form, yield, raw data, etc.).* | | |
| **Risk Management (\*\*\*):** *Risks within the relevant WP that may negatively affect the success of the thesis and the measures (Plan B) to be taken in case these risks are encountered to ensure successful execution of the thesis are presented. The implementation of Plan B should not lead to deviations from the main objectives and original value of the thesis. If a methodological change occurs when switching to Plan B, this situation should be detailed. It is not mandatory to foresee risks for every work package.* | | |
| **Definition of Risks** | | **Measures to be Taken (Plan B)** |
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**(\*)** Depending on the number of WPs, the table can be expanded, and rows for risks and measures (Plan B) can be duplicated as needed.

**(\*\*)**The names and roles (researcher, supervisor, scholarship holder, and supporting staff) of the person(s) involved in the tasks/activities are written. At this stage, it is not mandatory to specify the names of the scholarship holder(s).

**(\*\*\*)** Rows for risks and measures (Plan B) can be duplicated according to the number of risks and measures.

* 1. **Research Facilities**

The infrastructure/equipment (laboratories, tools, machinery, devices, etc.) available in the institutions and organizations where the thesis will be conducted, and which will be used in the thesis, are specified.

**RESEARCH FACILITIES TABLE (\*)**

|  |  |
| --- | --- |
| **Type and Model of Infrastructure/Equipment Available in the Institution**  (Laboratory, Tools, Machinery, Devices, etc.) | **Purpose of Use in the Thesis** |
|  |  |
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**(\*)** Rows in the table can be expanded and duplicated as needed.

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| **4. WIDE IMPACT** |

If the thesis is successfully completed, the expected outputs to be obtained from the thesis, the anticipated impacts, and the activities planned for the dissemination and sharing of these outputs should be briefly and clearly stated in this section.

**4.1. Expected Outputs**

The expected outputs of the thesis should be classified according to their purposes and based on measurable and realistic targets. If applicable, information about the institutions/organizations that will use these outputs should be provided. The expected time frame for achieving each output should also be indicated.

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| **Output Type** | **Expected Output(s)** | **Expected Time Frame (\*)** |
| **Scientific/Academic Outputs** (National/International Articles, Books, Book Chapters, Conference Proceedings, etc.): |  |  |
| **Economic/Commercial/Social Outputs** (Prototype, Product, Patent, Utility Model, Production License, Registration, Visual/Audio Archive, Inventory/Database/Documentation Production, Spin-off/Start-up Company, etc.): |  |  |
| **Outputs Related to Researcher Training and Creation of New Projects** (Master’s/PhD/Medical Specialization/Proficiency in Arts Theses, and New National/International Projects and Theses, etc.): |  |  |

**(\*)** Should be indicated as 0–12 months, 12–18 months, post-thesis, etc.

**4.2. Expected Impacts**

If the thesis is successfully completed, evaluations regarding the anticipated application areas and the contributions of the thesis in socio-economic/cultural fields should be included.

* Expected Application Areas: The existing and/or potential application areas of the planned research outputs from the thesis should be specified. If applicable, connections with potential end-users (policy-makers, civil society/users, private sector, etc.) who may benefit from the thesis results should be established and explained.
* Socio-economic/Cultural Contribution: Evaluations should be made regarding contributions in the following areas: improving quality of life; uninterrupted and reliable energy supply; clean and circular economy practices; reduction of greenhouse gas emissions; effective waste management; adaptation to and mitigation of climate change; access to high-quality and safe clean water; protection of biodiversity; sustainable, high-quality and safe food supply; natural disaster management; sustainable and smart transportation; protection of cultural and natural assets; inclusion of disadvantaged groups in social life; improving the quality of education; lifelong learning; contributions to social policies; civil security, etc.

It is recommended to relate the anticipated contributions to the targets and policies in higher-level policy documents, particularly the [Twelfth Development Plan](https://www.sbb.gov.tr/wp-content/uploads/2023/12/On-Ikinci-Kalkinma-Plani_2024-2028_11122023.pdf), and to explain this relationship with references to the relevant documents.

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**4.3. Dissemination of Thesis Results and Science Communication Activity Plan**

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| **Target Audience:** *The groups expected to benefit from the outputs and results obtained during the thesis process should be identified (e.g., academics, policymakers and practitioners, private sector, individuals, specific age groups, etc.). It should be explained how these target audiences will be reached and how they are expected to benefit from the planned dissemination activities*. |
| **Objectives and Expected Outcomes:** *The dissemination activities should outline how awareness, interest, and knowledge accumulation related to the thesis topic will be enhanced. It should also be clarified why sharing thesis results with the target audience is important and what kind of impact or benefit will be achieved.* |
| **Tools to Be Used:** *The channels/communication tools to be employed for sharing the intended content should be specified (such as digital platforms, media outlets, websites, workshops, meetings, podcasts, visual/audio tools like infographics, fairs, seminars, or exhibitions). The rationale for selecting these tools and how interaction with the target audience will be ensured should be explained, taking into account the audience’s characteristics.* |
| **Timeline:** *The time period in which the planned activities will be carried out and their duration should be clearly stated.* |

**OTHER ISSUES TO BE SPECIFIED**

Only information or data (such as graphics, tables, etc.) that may contribute to the evaluation of the thesis proposal can be included.

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**APPLICATION FORM APPENDICES**

**APPENDIX-1: REFERENCES**

Formu Güncelleme Tarihi: 02.10.2022

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| **Student**  Name Surname : |
| …../….../20  signature |