

 OSTİM TECHNICAL UNIVERSITY

**2023-2024 SEMESTER**

**ELECTRICAL-ELECTRONIC ENGINEERING DEPARTMENT GRADUATION PROJECT PROPOSAL FORM**

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| **Lecture Code: EEE400/411** | **Lecture Name: Graduation Project** |
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| **Project Title / Number of Students:** | **Sounding Rocket Measurement Payload (Candidate for TEKNOFEST)/ 5 students** |
| **WORKS AND PROCEDURES TO BE DONE IN THE PROJECT****(Put the item number on the left and write it in order)** |
| **Item**1. Conducting a literature survey on CanSat design and requirements in terms of communication, sensors, payloads, power systems, and control and propulsion methods.
2. Selecting appropriate communication, sensors, payloads, and power subsystems.
3. Determining the proper control and propulsion methods.
4. Defining the component requirements and procurement.
5. Make a system design and confirm it by simulation.
6. Develop the required software for the space platform, the ground station, and the payload.
7. Implement the Cansat system.
8. Test the total system.
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| PROJECT AIMS |
| **Item**1. The project aims to design and manufacture a low-altitude measurement payload as a CanSat.
2. A basic design that adheres to the specified dimensional and weight constraints will be realized to ensure wirelessly transmitting telemetry data.
3. A ground station will be designed to monitor and visualize the payload data during flight.
4. Students will be expected to follow design review cycles.
5. The students will develop all the required software and hardware.
6. The students will take the engineering and field tests.
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| **THE STUDENT TO WORK ON THE PROJECT** |
| Number | Name Surname | Signature |
| 1.2.3.4.5. |  |  |

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| **SUPERVISOR** |
| TitleAssoc. Prof. Dr.Res. Assit. | Name SurnameAhmet Güngör PAKFİLİZ(Co-supervisor) Fatih MERCAN | Signature |