**2023-2024 SEMESTER**

**MECHANICAL ENGINEERING DEPARTMENT**

**GRADUATION PROJECT PROPOSAL FORM**

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| **Lecture Code: MEC 400** | **Lecture Name: Graduation Project** | | |
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| **Project Title / Number of Students:** | Exergy Model of District Heating Network. |
| **WORKS AND PROCEDURES IN THE PROJECT** | |
| **Item**   1. Literature survey 2. Create an Exergy model. 3. Write a computer program for optimum district network size for minimum CO2 emissions responsibility. 4. Apply to three case studies. 5. Compare with respect to CO2 mitigation potential 6. Discussion and recommendations 7. Submit a full report and a paper abstract | |
| PROJECT AIMS | |
| 1. To recognize the importance of rational exergy management in buildings 2. Apply the model to real-life applications 3. To exhibit the attributes of the model 4. To promote the rational utilization of waste heat and low-enthalpy geothermal resources | |
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| **THE STUDENT TO WORK ON THE PROJECT** | | |
| Number | Name Surname | Signature |
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| **SUPERVISOR** | | |
| Title  Prof. Dr. | Name Surname  Birol Kılkış | Signature |