**Graduation Project Proposal**

|  |  |
| --- | --- |
| Project Title | Manufacturing and characterization of fiber reinforced composites |
| Classification | Research project |
| Supervisor | Bertan Beylergil |
| Abstract | Fiber-reinforced composites have emerged as a revolutionary class of materials, combining the strength and versatility of fibers with the resilience of a matrix material.In today's advanced engineering and manufacturing landscape, fiber-reinforced composites play a pivotal role in enhancing the performance and durability of various products, from aerospace components to sporting goods. In this project, the production and mechanical characterization of composites consisting of different types of fibers will be conducted in this project. |

The graduation project is the subject of the MEC 401 Mechanical Engineering Design and MEC 402 Graduation Project courses offered in the 7th and 8th semesters, respectively.

|  |  |
| --- | --- |
| Course Name | MEC 401 Mechanical Engineering Design |
| Prerequisites | Strength of Materials and Materials Science |
| Corequisites | None |
| Requirements | None |
| Workflow | * Literature survey * Manufacturing and testing * Project report * Final presentation |

|  |  |
| --- | --- |
| Course Name | MEC 402 Graduation Project |
| Prerequisites | MEC 401 Mechanical Engineering Design |
| Corequisites | None |
| Requirements | None |
| Workflow | * Experimental studies * Comments on the results * Midterm presentation * Project report * Final presentation |

|  |  |  |  |
| --- | --- | --- | --- |
| Term |  | | |
| Date |  | | |
| Project Title |  | | |
| Supervisor Name and Signature |  | | |
| Students | | | |
| First Name | Last Name | Student Number | Signature |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |