**Graduation Project Proposal**

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| Project Title | Manufacturing and characterization of 3D printed structures |
| Classification | Research project |
| Supervisor | Bertan Beylergil |
| Abstract | 3D printing, also known as additive manufacturing, has sparked a technological revolution by enabling the creation of three-dimensional objects layer by layer from digital designs. In recent years, 3D printing has gained prominence as a disruptive technology, reshaping industries ranging from healthcare and aerospace to automotive and fashion.. In this project, the production and mechanical characterization of 3D printed structures 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.

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| 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 |

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| 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 |

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