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Açıklama otomatik olarak oluşturuldu

OSTİM TECHNICAL UNIVERSITY

**2023-2024 SEMESTER**

**GRADUATION PROJECT PROPOSAL FORM FOR MECHANICAL ENGINEERING DEPARTMENT**

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| **Lecture Code: MEC 400** | **Lecture Name: Graduation Project** | | |
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| **Project Title / Number of Students:** | **Flexural Behavior Carbon Fiber Reinforced Epoxy Composite** / 1 student |
| **WORKS AND PROCEDURE TO BE DONE IN THE PROJECT**  **(Put the item number on the left and write it in order)** | |
| **Item**   1. Literature review on the flexural behavior of carbon fiber reinforced epoxy composites (CFRPs) and its usage method of VARTIM method will be searched. 2. Mechanical/physical properties like tensile strength/hardness and density of CFRP composites will be calculated. 3. Flexural properties of the composites will be measured with according to ASTM D 790 standard and determined at room temperature. The laminate composites with thin square samples are prepared. 4. Fracture surfaces of CFRP composites will be examined under optical/SEM images. 5. XRD analysis will be done to see the atomic structure and its defects. | |
| PROJECT AIMS | |
| **Item**   1. To investigate the mechanical (tensile/hardness) and physical properties (density). 2. To identify the mechanical & physical testing devices used for investigations 3. To find out/realize the elastic modulus and strength property. | |

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| **THE STUDENT TO WORK ON THE PROJECT** | | |
| Number | Name Surname | Signature |
| 1.  2. |  |  |

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| **SUPERVISOR** | | |
| Title  Prof.Dr. | Name Surname  Yusuf ŞAHIN | Signature  ysahin |