MAT 307 – Composite Materials
Spring 2022

Instructor
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Room
FENS L029

Teaching Assistant
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Class Schedule
The courses will be conducted physical and online
Monday  2:40pm – 3:30pm
Wednesday 10:40am – 12:30pm

Recitation
Recitations will be online via zoom
Friday  4:40pm – 6:30pm

Office hours
Please request online zoom meeting by email

Objectives
1) Understanding mechanics and manufacturing technologies of composite materials. 2) Solving engineering problems which involve composite materials. 3) Doing research either online or by using library. 4) Working as a group and the ability to prepare a technical report

Grading
Midterm Exam I and II – 2 × %20
Quiz – 2 × %5 (conducted at recitation session)
Group Project – %25
Final – %25

Attendance to the courses (%80) and recitations (%80) is mandatory
## References


## Course Content

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<td>Introduction to Composite Materials</td>
<td>28.02.2022 – 04.03.2022</td>
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<td>Composite Manufacturing Processes</td>
<td>07.03.2022 – 11.03.2022</td>
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<td>Strength of Materials (Review)</td>
<td>14.03.2022 – 18.03.2022</td>
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<td>Macromechanical Analysis of a Lamina</td>
<td>21.03.2022 – 25.03.2022 (Quiz I) 28.03.2022 – 01.04.2022</td>
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<td>Strength and Failure Criteria for Lamina and Laminate</td>
<td>16.05.2022 – 20.05.2022 23.05.2022 – 27.05.2022</td>
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<td>Design of a Laminated Composite</td>
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## Course Material

Lecture notes and videos will be posted online at SUCourse website [https://sucourse.sabanciuniv.edu/](https://sucourse.sabanciuniv.edu/)