IZMİR INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
ME573 DEPLOYABLE STRUCTURES
FALL 2021-2022

INSTRUCTOR
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ASSISTANT
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SCHEDULE
Wednesday 13:30 – 16:15 @D2

STRONGLY RECOMMENDED PREREQUISITE
ME331 Theory of Machines I or equivalent

REFERENCES

COURSE CONTENT
- Introduction
- Scissor mechanisms
- Polygonal and polyhedral linkages
- Polyhedral linkages with planar link groups
- Overconstrained linkages
- Purely spatial deployable structures (PSDSs) composed of single dof loops
- Purely spatial deployable structures (PSDSs) composed of multi dof loops
- Jitterbug like linkages

TENTATIVE GRADING
Homeworks (%20) + Project (%40) + Midterm examination (%20) + Final Examination (%20)