

BOĞAZIÇI UNIVERSITY
DEPARTMENT OF MECHANICAL ENGINEERING
ABET SURVEY

ME 324 Machine Design I

Semester: _____

Thank you for your time and effort to respond to this survey. Your answers will be used to assess the outcomes of our Mechanical Engineering program.

For each item below, indicate your opinion by giving a score as shown on the right:

| | | | |
|---|---|---|---|
| 4 | 3 | 2 | 1 |
|---|---|---|---|

Level of Agreement

Strongly agree

Agree

Disagree

Strongly disagree

Students who take this course

Course Learning Outcomes

| CLO 1 | Applies principles of mechanics to perform kinematic, force, stress, and failure analyses of structural parts and machine components like shafts | 4 | 3 | 2 | 1 |
|--------------|--|---|---|---|---|
| CLO 2 | Applies knowledge of fluid mechanics in the analysis of lubrication and design of sliding bearings | 4 | 3 | 2 | 1 |
| CLO 3 | Solves open-ended design problems considering the factors like loading, material, manufacturing and constraints like safety, cost, and performance | 4 | 3 | 2 | 1 |
| CLO 4 | Selects a suitable material for a machine part considering loading conditions, critical failure mode, and cost | 4 | 3 | 2 | 1 |
| CLO 5 | Develop ability to work in teams. | 4 | 3 | 2 | 1 |
| CLO 6 | Develop computer programming to obtain optimum values for design variables satisfying performance criteria and side constraints. | 4 | 3 | 2 | 1 |

Student Outcomes

| | | | | | |
|----------|---|---|---|---|---|
| 1 | Have an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics | 4 | 3 | 2 | 1 |
| 2 | Have an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors | 4 | 3 | 2 | 1 |
| 5 | Have an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives | 4 | 3 | 2 | 1 |

Please mark your attendance by shading percentage throughout the semester

| | | | |
|--|--|--|--|
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|--|--|--|--|

0 - 25% 25 - 50% 50 - 75% 75 - 100%