

**BOĞAZIÇI UNIVERSITY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**ABET SURVEY**

**ME 425 Mechanical Vibrations**

**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
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**Level of Agreement**

● **Strongly agree**      ● **Agree**      ● **Disagree**      ● **Strongly disagree** ●

Students who take this course

Course Learning Outcomes

		4	3	2	1	
<b>CLO 1</b>	Derive the equations of motion of discrete and continuous vibrating systems by using free body diagrams and/or by energy methods.	4	3	2	1	●
<b>CLO 2</b>	Determine the free response of a system considering initial conditions and/or force response due to harmonic, periodic or general force input.	4	3	2	1	●
<b>CLO 3</b>	Calculate natural frequencies, damping ratios and mode shapes of vibrating structures.	4	3	2	1	●
<b>CLO 4</b>	Design and analyze vibration suppression systems such as vibration absorbers, tuned mass dampers and/or vibration isolators.	4	3	2	1	●
<b>CLO 5</b>	Apply modern computational tools (e.g. MATLAB) to solve vibration problems.	4	3	2	1	●

Student Outcomes

		4	3	2	1	
<b>1</b>	Have an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	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%