

BOĞAZIÇI UNIVERSITY
DEPARTMENT OF MECHANICAL ENGINEERING
ABET SURVEY

ME 335 Modeling and Control of Dynamic Systems

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 between 4 (Strongly agree) and 1 (Strongly disagree):

| | | Level of Agreement | | | | |
|--------------------------|--------------|--|-------|----------|-------------------|---|
| | | Strongly agree | Agree | Disagree | Strongly disagree | |
| Course Learning Outcomes | CLO 1 | Derive the equations of motion of a dynamical system and represent the system as a transfer function in Laplace domain and State-Space form. | 4 | 3 | 2 | 1 |
| | CLO 2 | Design a feedback (feedforward) controller for a given system to make the system's output track the given reference signal. | 4 | 3 | 2 | 1 |
| | CLO 3 | Choose the parameter of the designed controller in order to meet the desired transient response. | 4 | 3 | 2 | 1 |
| | CLO 4 | Plot the root locus diagram and decide the closed loop stability for a varying parameter. | 4 | 3 | 2 | 1 |
| | CLO 5 | Plot the magnitude and phase Bode diagram of a plant and determine the frequency response of the system. | 4 | 3 | 2 | 1 |
| | CLO 6 | Plot the Nyquist diagram of a plant, decide the closed loop stability for a given control gain and the range of gain that maintains the closed loop stability. | 4 | 3 | 2 | 1 |
| Student Outcomes | a | Have an ability to apply knowledge of mathematics, science, and engineering. | 4 | 3 | 2 | 1 |
| | e | Have an ability to identify, formulate, and solve engineering problems. | 4 | 3 | 2 | 1 |

Please mark your attendance percentage throughout the semester

| | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|
| 0-25% | 25-50% | 50-75% | 75-100% |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |