

This is an anonymous survey to help us monitor and improve the quality of robotics education in the course *Robotic Systems I*. There are four main questions, each with three sub-questions. Please indicate your agreement with each statement on a scale of 1 to 5, where 1 means 'strongly disagree' and 5 means 'strongly agree'. Your responses will only be used to evaluate future changes to this course.

1. I am confident that I can use pulse-width modulation to set the speed of a DC motor.

1
2
3
4
5
(strongly disagree)

(strongly agree)

The lecture videos/quizzes were useful in helping me learn this.

1
2
3
4
5
(strongly disagree)

(strongly agree)

The labs/in-class activities were useful in helping me learn this.

1
2
3
4
5
(strongly disagree)

(strongly agree)

2. I am confident that I can explain the difference between open-loop and feedback control for positioning a robot joint.

1
2
3
4
5
(strongly disagree)

(strongly agree)

The lecture videos/quizzes were useful in helping me learn this.

1
2
3
4
5
(strongly disagree)

(strongly agree)

The labs/in-class activities were useful in helping me learn this.

1
2
3
4
5
(strongly disagree)

(strongly agree)

3. I am confident that I can use feedback control (either on/off or PID) to control the position of a robot joint using a DC motor, position sensor, and a microcontroller.

1 2 3 4 5
(strongly disagree) (strongly agree)

The lecture videos/quizzes were useful in helping me learn this.

1 2 3 4 5
(strongly disagree) (strongly agree)

The labs/in-class activities were useful in helping me learn this.

1 2 3 4 5
(strongly disagree) (strongly agree)

4. I am confident that I can find good values for PID control by adjusting the gains and watching the response of the joint.

1 2 3 4 5
(strongly disagree) (strongly agree)

The lecture videos/quizzes were useful in helping me learn this.

1 2 3 4 5
(strongly disagree) (strongly agree)

The labs/in-class activities were useful in helping me learn this.

1 2 3 4 5
(strongly disagree) (strongly agree)