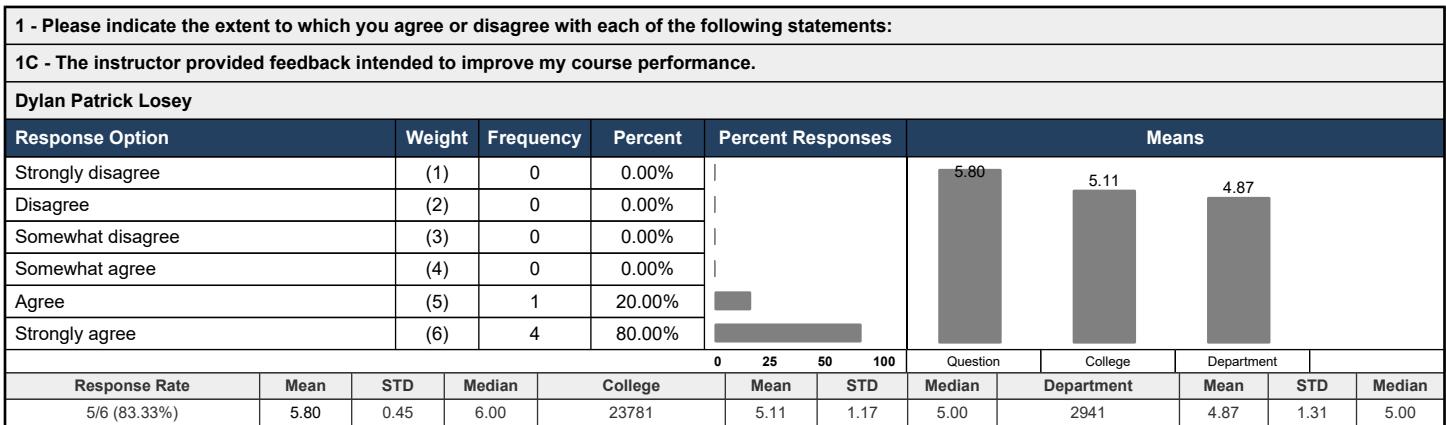
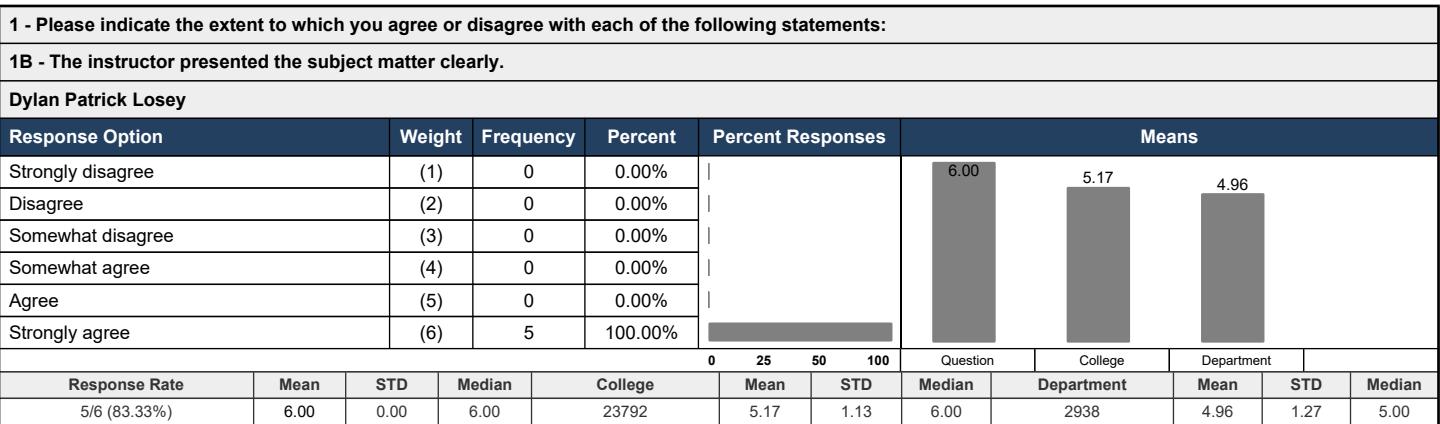
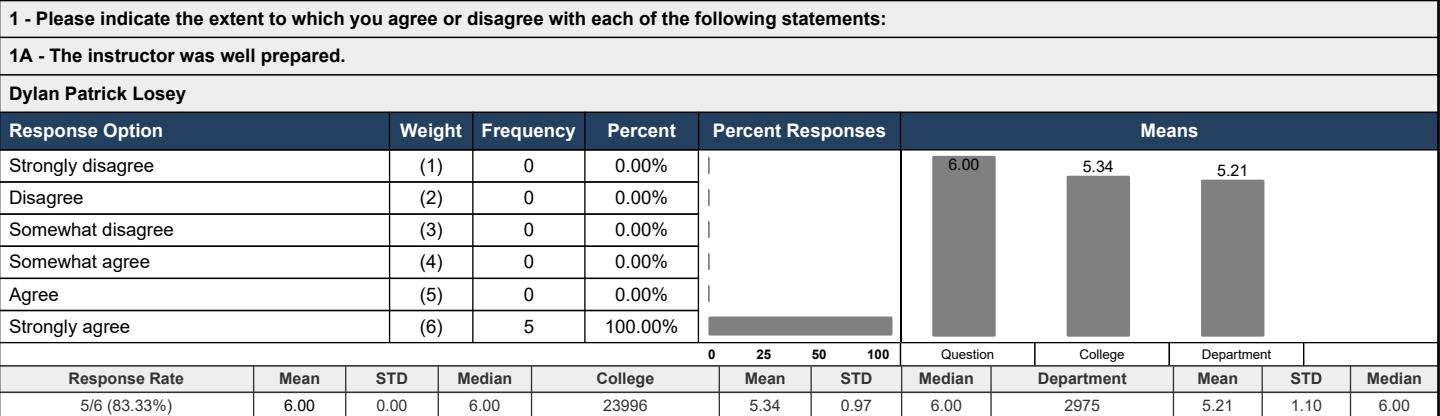


Virginia Tech

Fall 2025 VT Student Perceptions of Teaching (SPOT)

Course: ECE_5704_84052_202509: Robotics and Automation-ECE_5704_84052_202509
Instructor: Dylan Patrick Losey *

Response Rate: 5/6 (83.33 %)

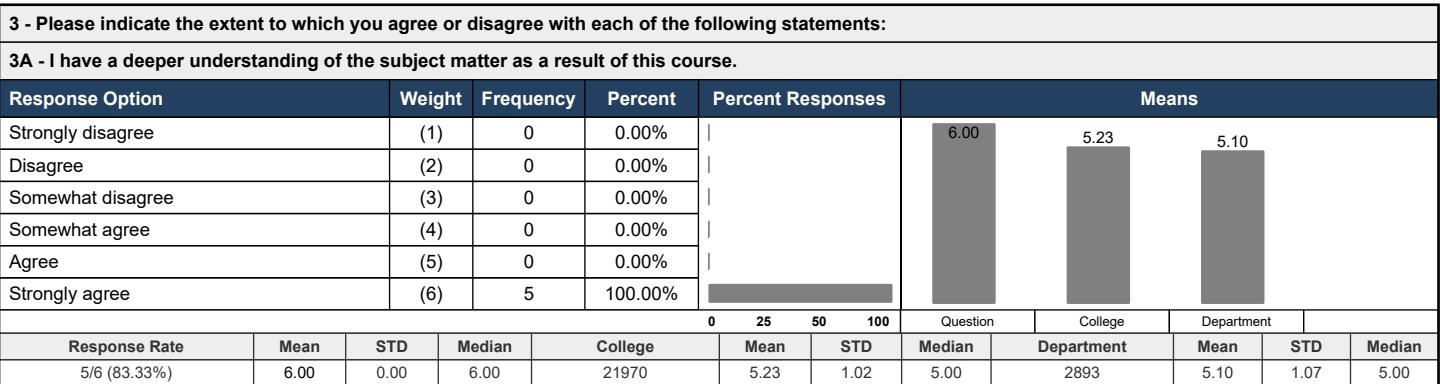
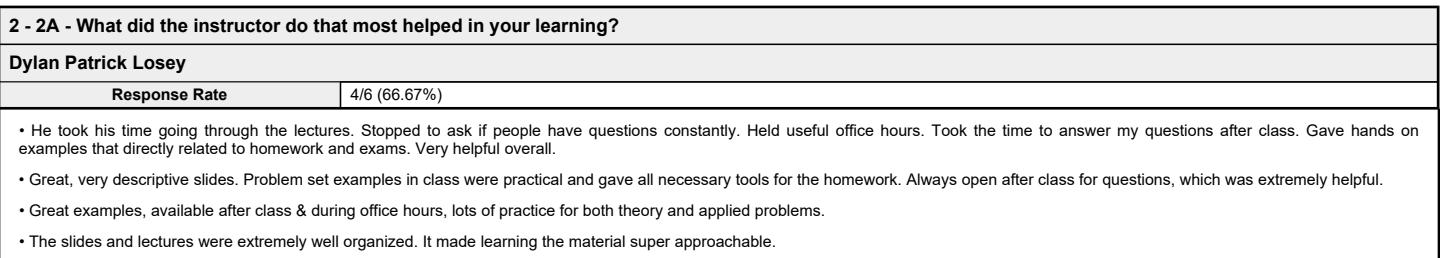
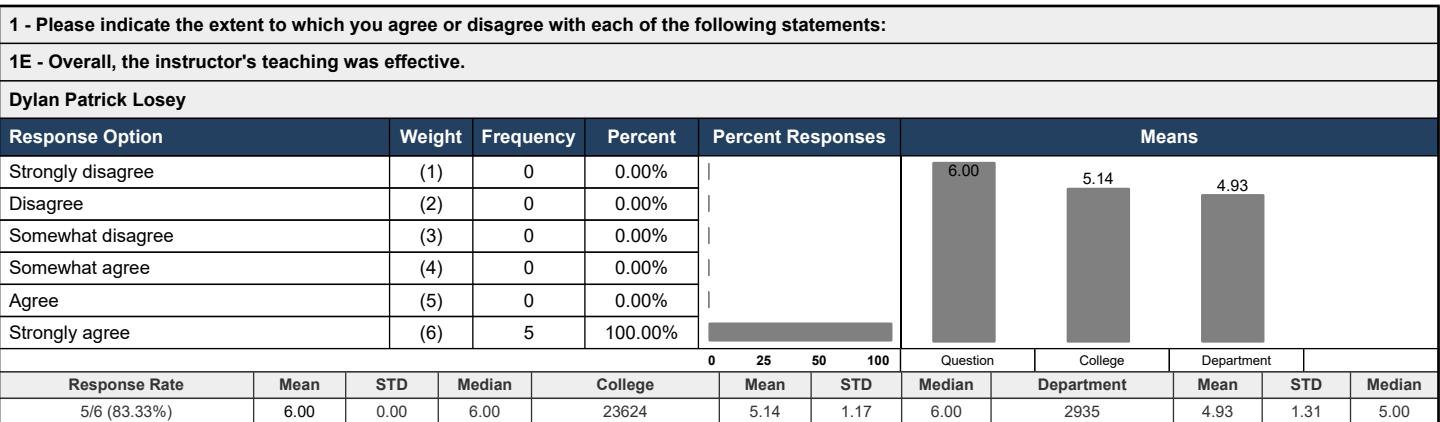
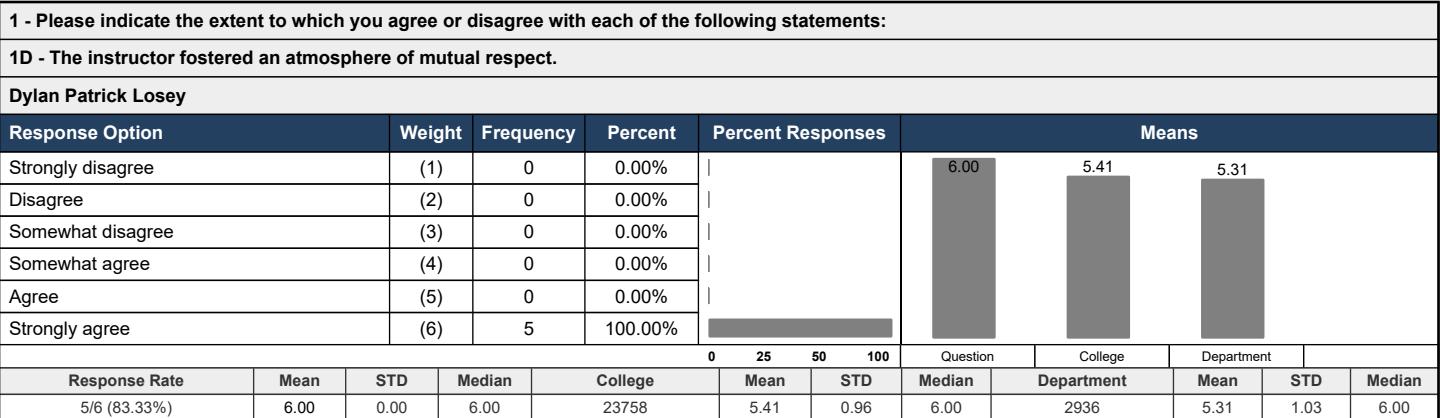


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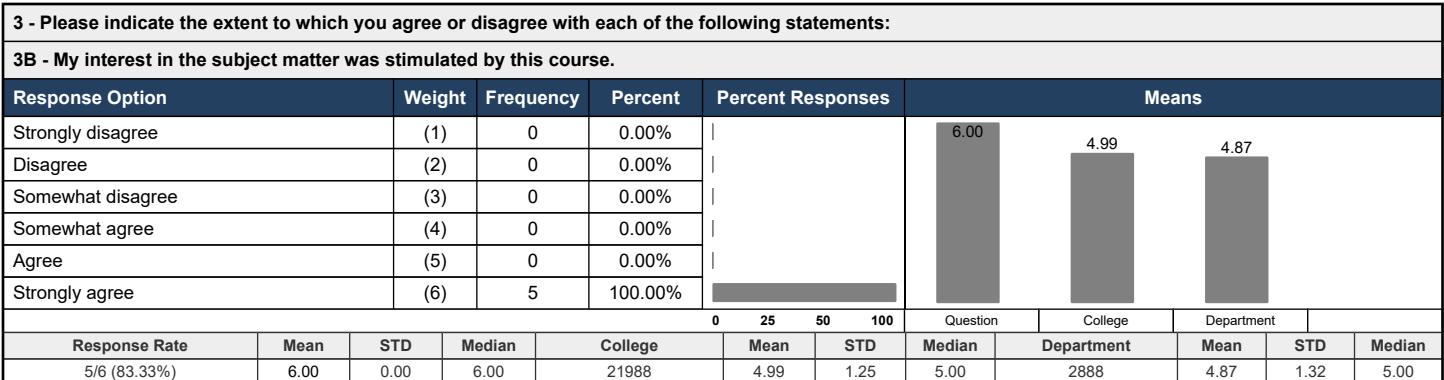
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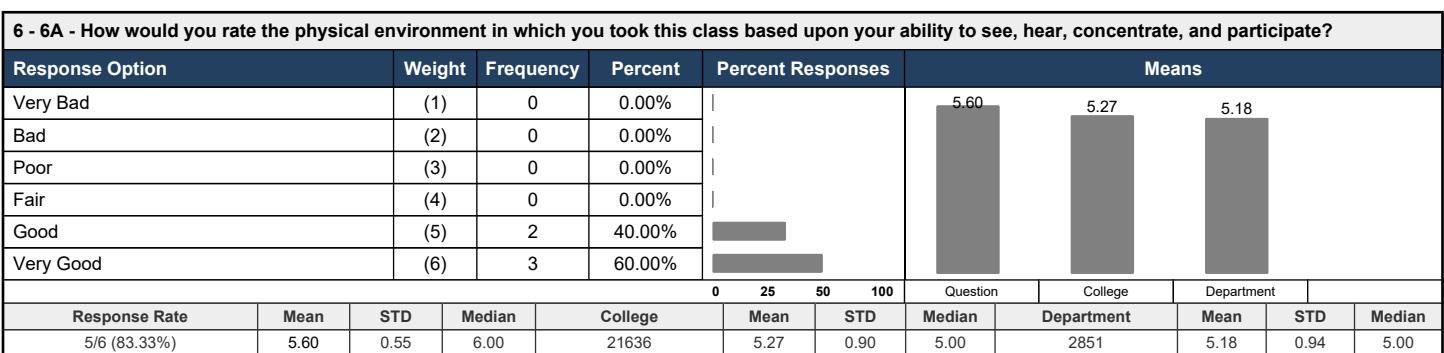
4 - 4A - What could you have done to be a better learner?

Response Rate	4/6 (66.67%)
<ul style="list-style-type: none"> I could have read the textbook based on the related reading sections. Attend more office hours early on in the class. Work more closely with others in class on homeworks. Read control book more. I could have read more of the textbook. 	

5 - 5A - Please add any additional comments regarding the course and/or instructor here:

Dylan Patrick Losey

Response Rate	2/6 (33.33%)
<ul style="list-style-type: none"> One of the best professors I've had. Breaks down robotics topics into simple, digestible chunks that feels like I could have understood even if I were a freshman in high school. I do think the second half of the course is slightly rushed, and feel a bit like inverse kinematics & maybe even statics could be pushed in before the midterm to give more time for dynamics & control. I also think moving away from matlab would be good, to something like python, where we can use a library like Drake would be interesting. Dr. Losey is one of the best professors I've had at VT. He's well-organized, fair, and approachable. I think the only thing that could have made the course better would be to add another session of office hours mid-week, or an extra recitation pre-exams. 	



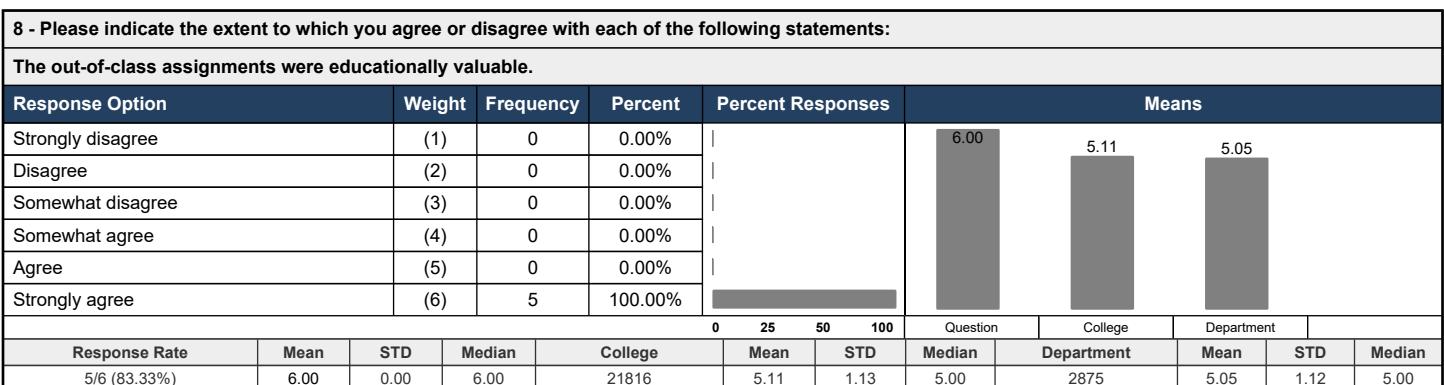
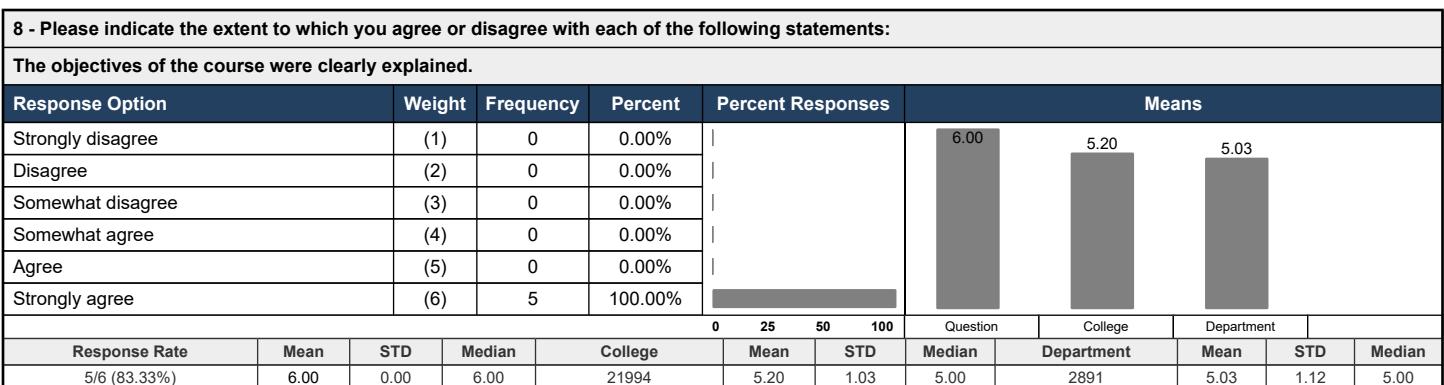
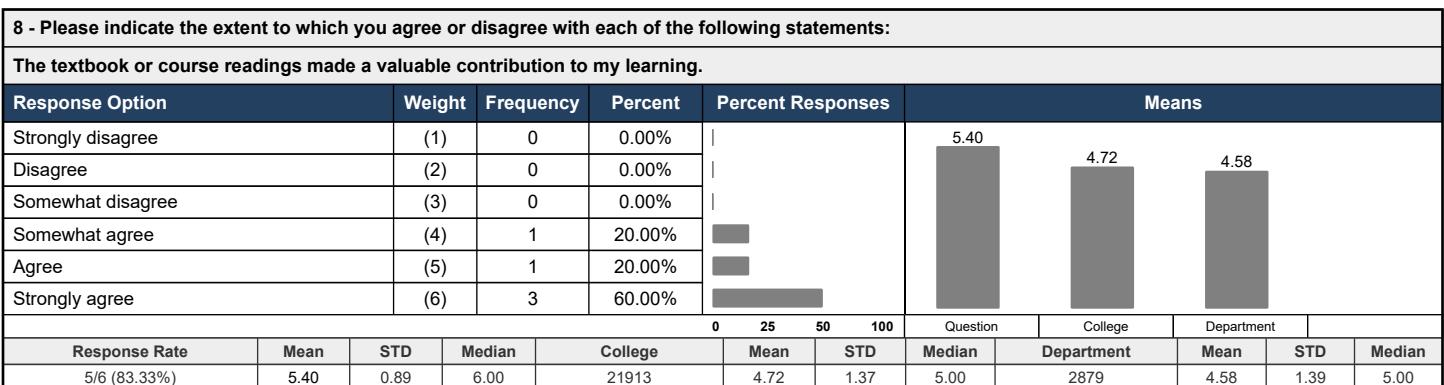
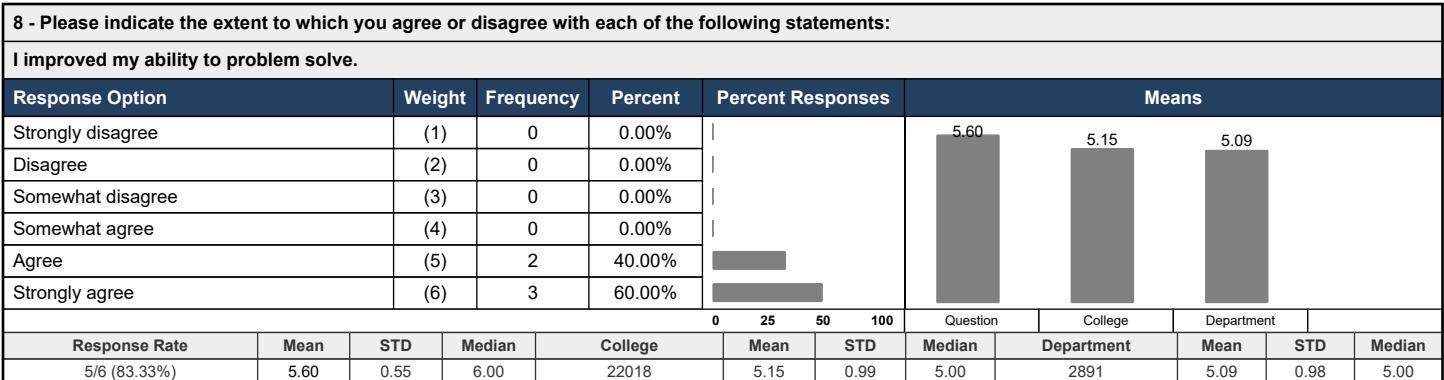
7 - 7A - Please add any comments about the physical environment here:

Response Rate	2/6 (33.33%)
<ul style="list-style-type: none"> Screen size was good. Room was right size for the amount of attendees. Very comfortable/ welcoming towards questions. 	

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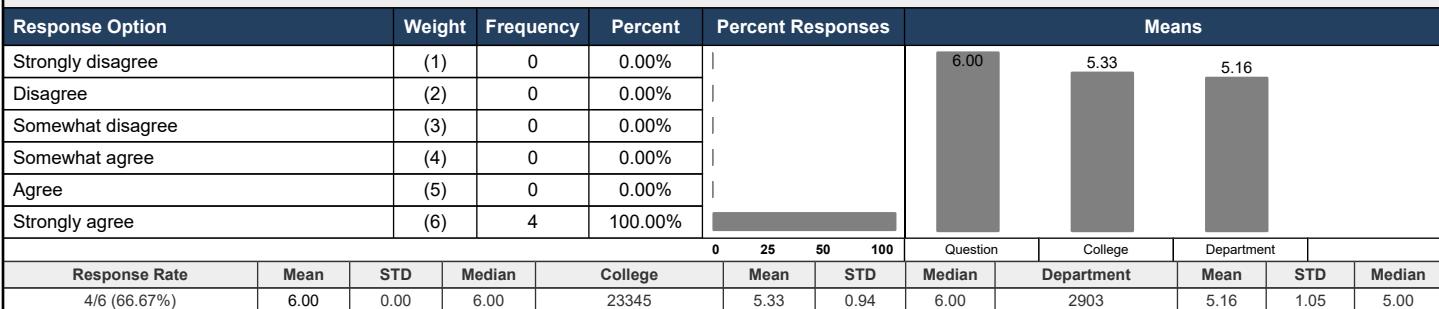
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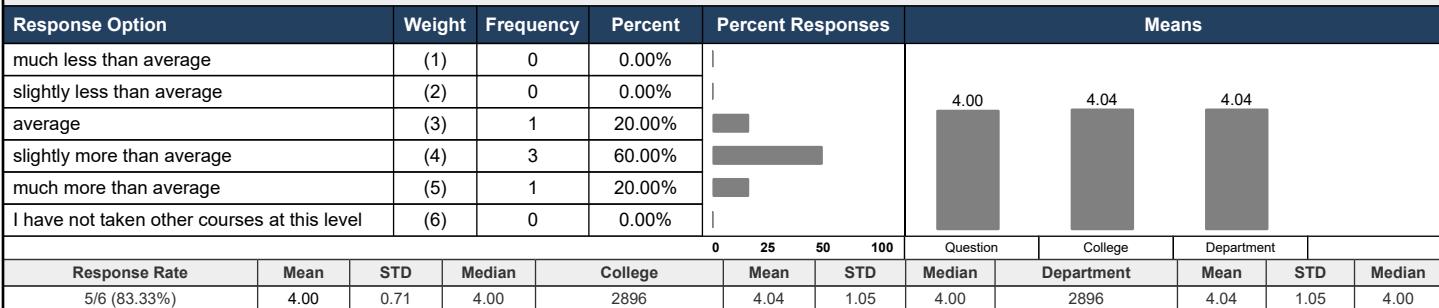
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9 - The instructor related theories and concepts to practical issues.

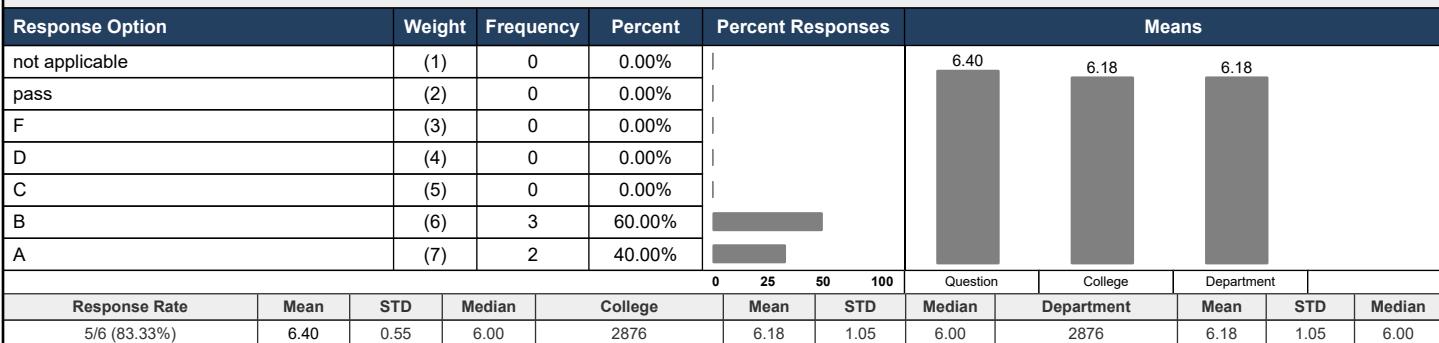
Dylan Patrick Losey



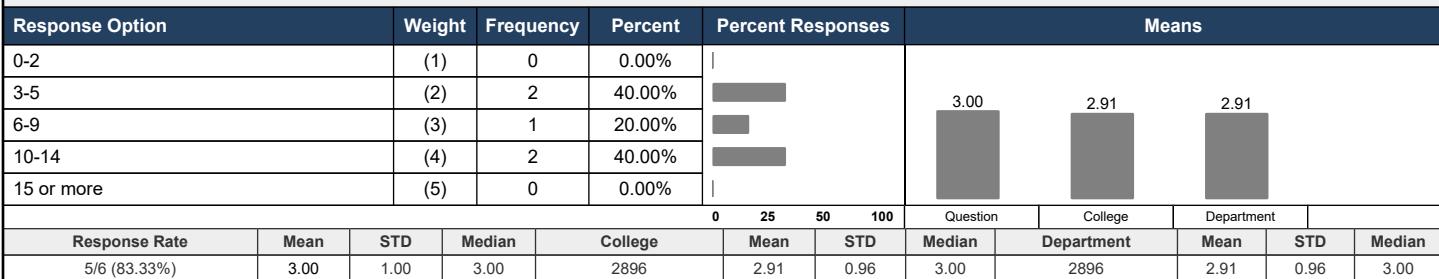
10 - Compared to other courses at this level, the difficulty of this course is:



11 - The grade I expect in this course is:



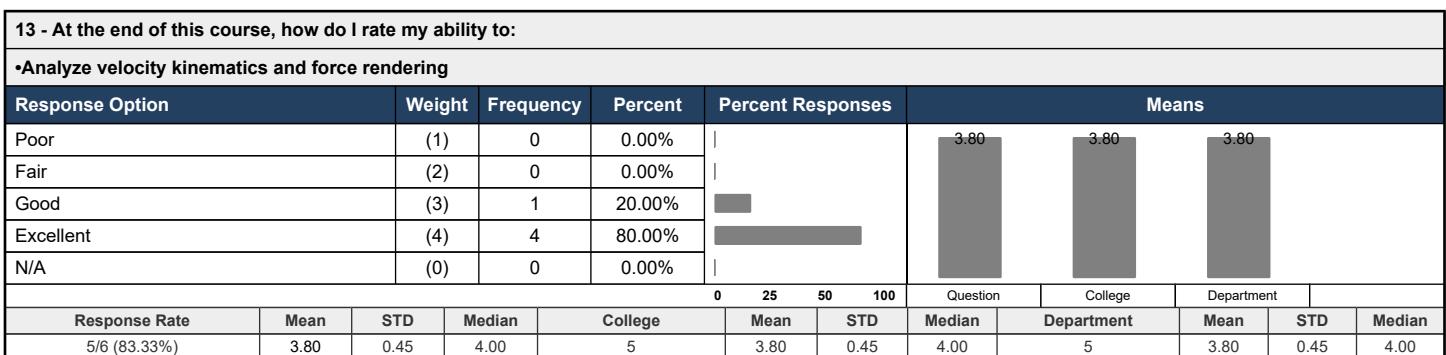
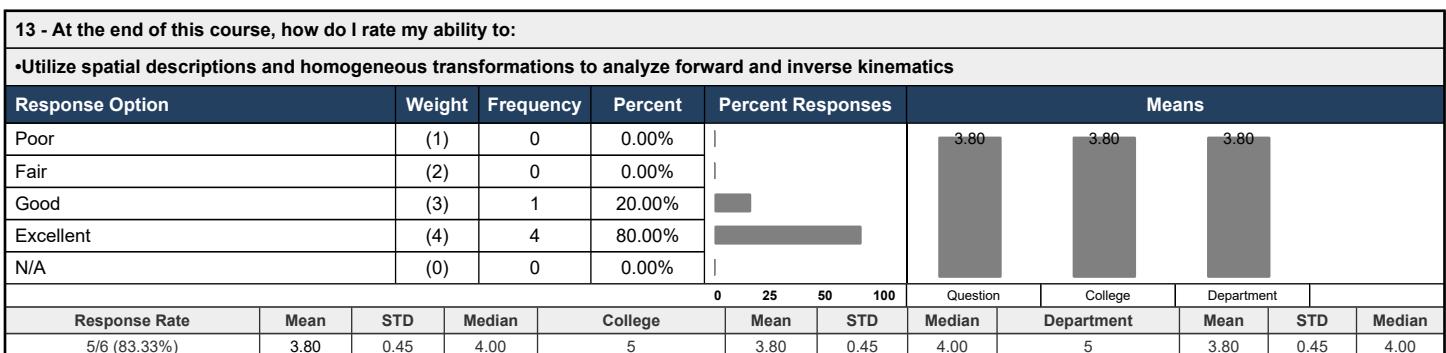
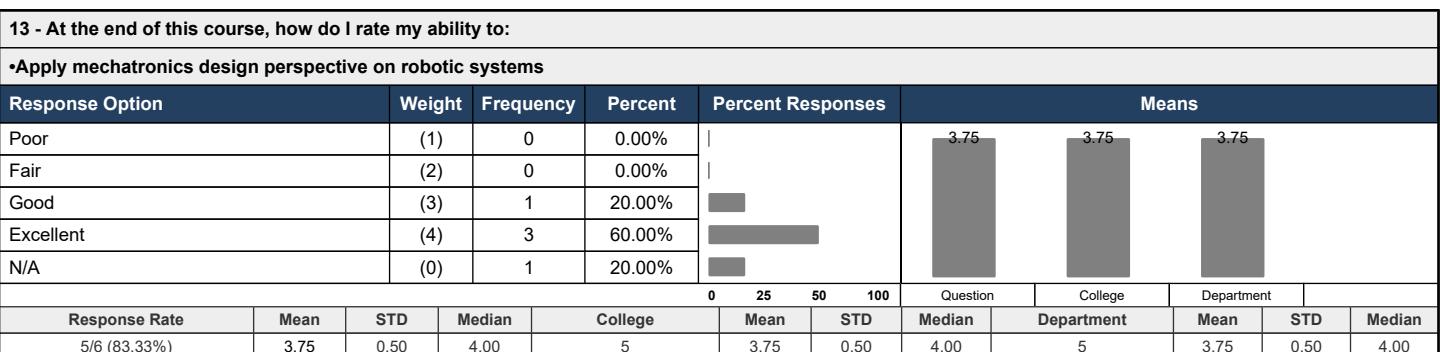
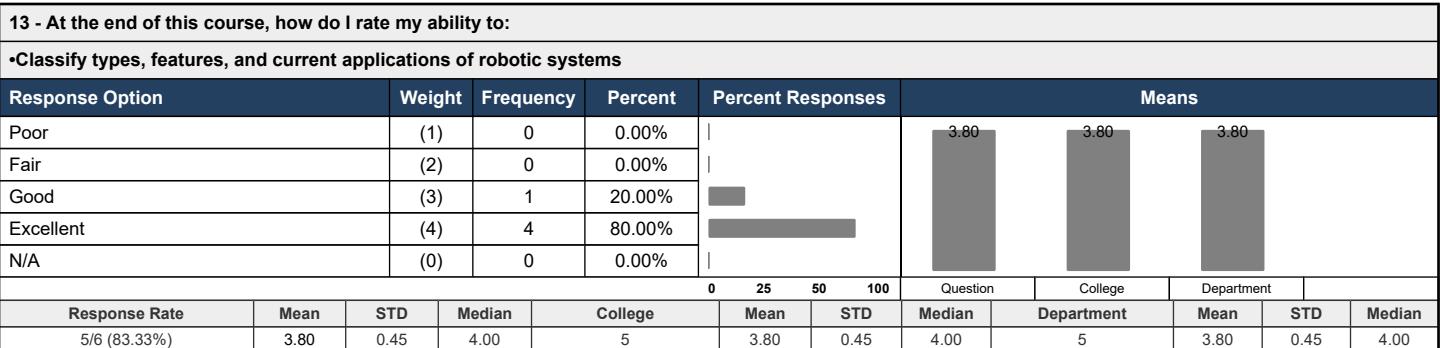
12 - Approximately how many hours per week outside of class do you spend on homework, reading, and projects for this course?



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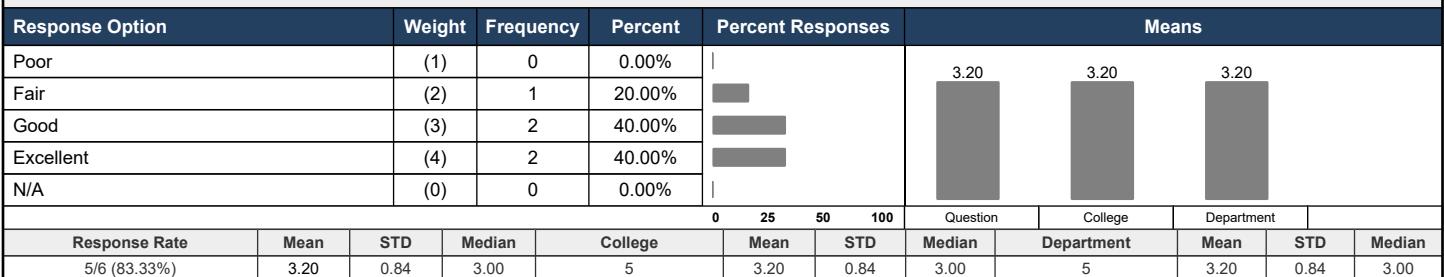
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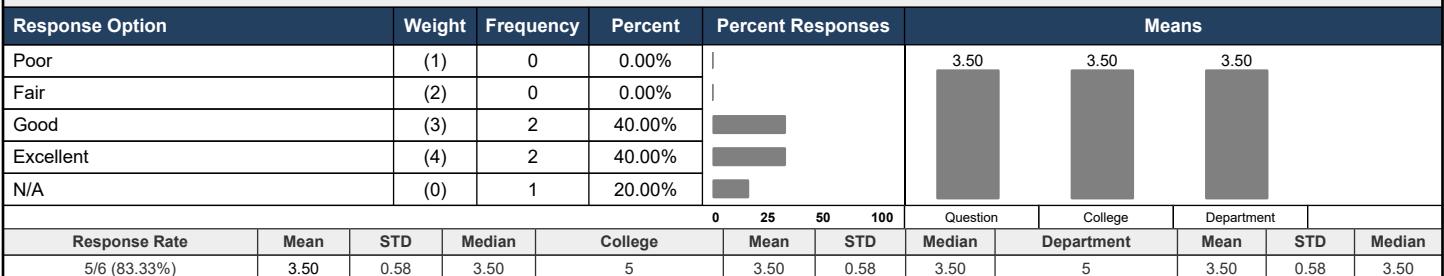
13 - At the end of this course, how do I rate my ability to:

- Model the dynamics and controls of stationary and mobile robots



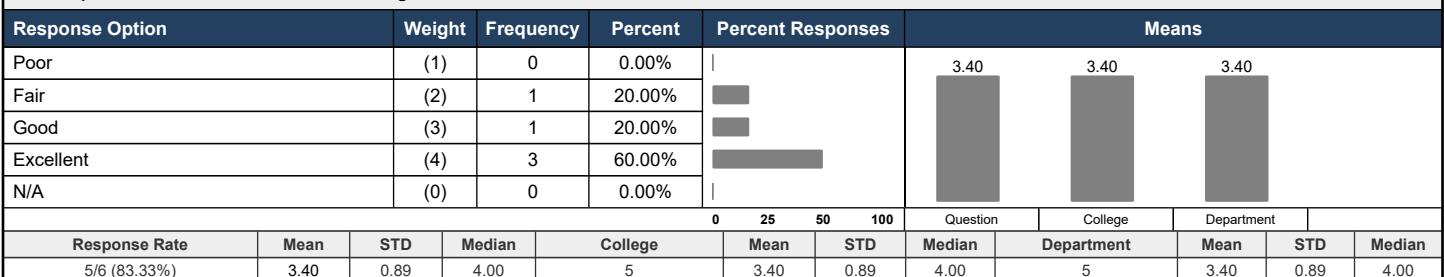
13 - At the end of this course, how do I rate my ability to:

- Apply appropriate actuators, transmissions, sensors, and end effectors to robot design



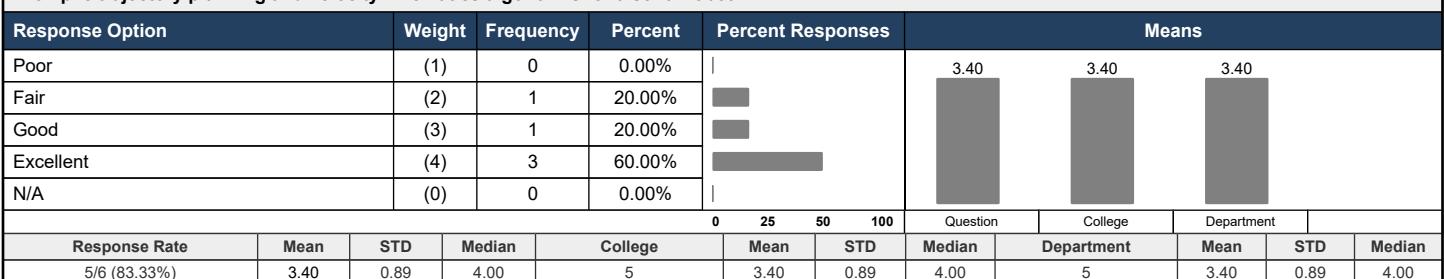
13 - At the end of this course, how do I rate my ability to:

- Develop forward and inverse kinematics algorithms for serial and mobile robots



13 - At the end of this course, how do I rate my ability to:

- Compile trajectory planning and velocity kinematics algorithms for a serial robot



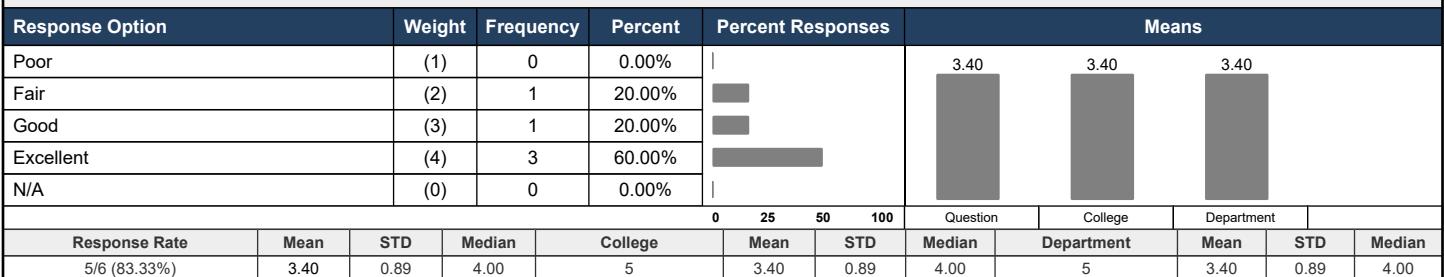
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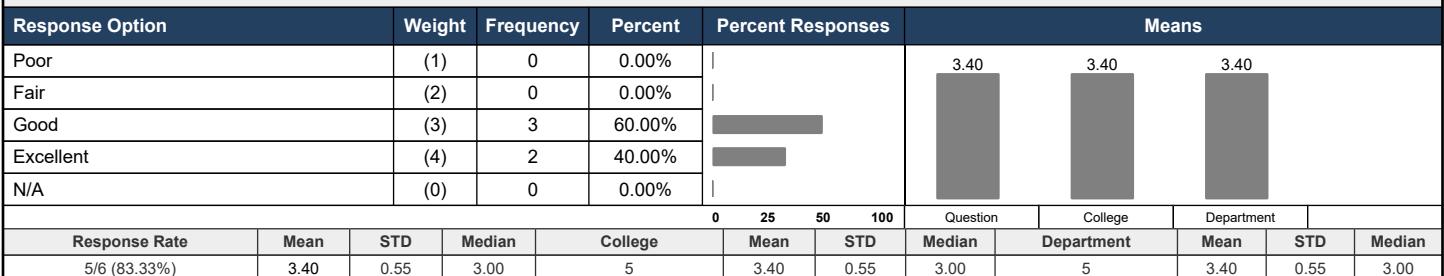
13 - At the end of this course, how do I rate my ability to:

- Develop force rendering algorithms for a serial robot



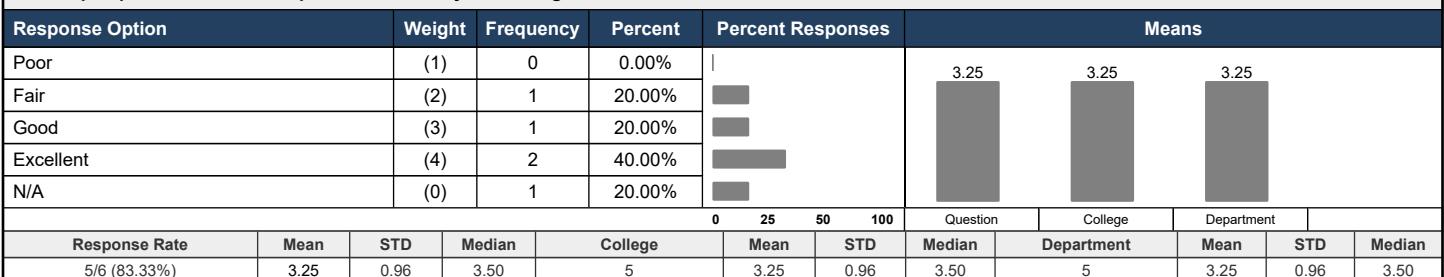
13 - At the end of this course, how do I rate my ability to:

- Verify the effect various control parameters have on the performance of a serial robot



13 - At the end of this course, how do I rate my ability to:

- Develop haptic controllers to represent virtual objects through a serial robot



13 - At the end of this course, how do I rate my ability to:

- Compile and test various algorithms for a mobile robot, including mapping/localization, image processing and potential fields

