

Virginia Tech

Fall 2024 VT Student Perceptions of Teaching (SPOT)

Course: ECE_5704_83851_202409: Robotics and Automation-ECE_5704_83851_202409
Instructor: Dylan Patrick Losey *
Response Rate: 5/6 (83.33 %)

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1A - The instructor was well prepared.

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	0	0.00%		6.00	5.31	5.20	Question	College	Department	Mean	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	5	100.00%										
					0	25	50	100					
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
5/6 (83.33%)	6.00	0.00	6.00	24647	5.31	1.01	6.00	3043	5.20	1.10	6.00		

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1B - The instructor presented the subject matter clearly.

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	0	0.00%		6.00	5.14	4.99	Question	College	Department	Mean	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	5	100.00%										
					0	25	50	100					
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
5/6 (83.33%)	6.00	0.00	6.00	24466	5.14	1.15	5.00	3012	4.99	1.20	5.00		

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1C - The instructor provided feedback intended to improve my course performance.

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	0	0.00%		6.00	5.10	4.93	Question	College	Department	Mean	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	5	100.00%										
					0	25	50	100					
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
5/6 (83.33%)	6.00	0.00	6.00	24446	5.10	1.17	5.00	3014	4.93	1.26	5.00		

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Response Rate: 5/6 (83.33 %)

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1D - The instructor fostered an atmosphere of mutual respect.

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	0	0.00%		6.00	5.41	5.30						
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	5	100.00%										
					0	25	50	100	Question	College	Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
5/6 (83.33%)	6.00	0.00	6.00	24424	5.41	0.95	6.00	Department	3012	5.30	1.04	6.00	

1 - Please indicate the extent to which you agree or disagree with each of the following statements:

1E - Overall, the instructor's teaching was effective.

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	0	0.00%		6.00	5.13	4.98						
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	5	100.00%										
					0	25	50	100	Question	College	Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
5/6 (83.33%)	6.00	0.00	6.00	24242	5.13	1.18	5.00	Department	2998	4.98	1.25	5.00	

2 - 2A - What did the instructor do that most helped in your learning?

Dylan Patrick Losey

Response Rate	5/6 (83.33%)
<ul style="list-style-type: none"> • Always was there after the lecture for any questions, and also office hours! • The practice problems that were solved after each session. • Losey is the most engaging lecturer have had in a technical course. • Using the structure of introducing the topics in a slide deck and then having practice problems in class greatly helped my understanding of topics. • Dr. Losey pretty much gave you all the resources you needed to complete the work, and even if that wasn't enough, he promptly answer questions on the discussions board or in class. 	

3 - Please indicate the extent to which you agree or disagree with each of the following statements:

3A - I have a deeper understanding of the subject matter as a result of this course.

Response Option	Weight	Frequency	Percent	Percent Responses	Means								
Strongly disagree	(1)	0	0.00%		6.00	5.19	5.13						
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	5	100.00%										
					0	25	50	100	Question	College	Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
5/6 (83.33%)	6.00	0.00	6.00	22731	5.19	1.04	5.00	Department	2966	5.13	1.06	5.00	

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Response Rate: 5/6 (83.33 %)

3 - Please indicate the extent to which you agree or disagree with each of the following statements:

3B - My interest in the subject matter was stimulated by this course.

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	0	0.00%		5.80	4.98	4.93					
Disagree	(2)	0	0.00%									
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	0	0.00%									
Agree	(5)	1	20.00%									
Strongly agree	(6)	4	80.00%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
5/6 (83.33%)	5.80	0.45	6.00	22595	4.98	1.24	5.00	2963	4.93	1.25	5.00	

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

Response Rate 4/6 (66.67%)

- I could have been more open to asking questions during class, but I am a huge introvert.
- Writing down more detailed notes in the class.
- I could have made better use of office hours by preparing my questions in advance.
- Did a better job going over the easier subjects before the mid term and not getting tunnel vision on the more complex parts.

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

Dylan Patrick Losey

Response Rate 4/6 (66.67%)

- This was my first semester at Virginia Tech, and Professor Losey gave me such a great impression on VT's education! Absolutely the best Professor.
- Awesome course and awesome instructor.
- The homework was difficult enough that allowing corrections to encourage learning misunderstood material would be helpful. Maybe something like 50% credit on corrected answers.
- The format he has here is pretty much rock solid. To quote the saying, "if it ain't broke, don't fix it."

6 - 6A - How would you rate the physical environment in which you took this class based upon your ability to see, hear, concentrate, and participate?

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Very Bad	(1)	0	0.00%		5.60	5.30	5.12					
Bad	(2)	0	0.00%									
Poor	(3)	0	0.00%									
Fair	(4)	0	0.00%									
Good	(5)	2	40.00%									
Very Good	(6)	3	60.00%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
5/6 (83.33%)	5.60	0.55	6.00	22489	5.30	0.87	5.00	2946	5.12	1.00	5.00	

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

Response Rate 3/6 (50%)

- No problem in the physical environment.
- The desks don't have outlets.
- Nothing to complain about.

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8 - Please indicate the extent to which you agree or disagree with each of the following statements:

I improved my ability to problem solve.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	0	0.00%								
Agree	(5)	0	0.00%								
Strongly agree	(6)	5	100.00%								
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)	6.00	0.00	6.00	22628	5.13	1.01	5.00	2951	5.12	0.98	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The textbook or course readings made a valuable contribution to my learning.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	1	20.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	2	40.00%								
Agree	(5)	0	0.00%								
Strongly agree	(6)	2	40.00%								
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)	4.40	1.67	4.00	22524	4.70	1.38	5.00	2940	4.57	1.39	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The objectives of the course were clearly explained.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	1	20.00%								
Agree	(5)	0	0.00%								
Strongly agree	(6)	4	80.00%								
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)	5.60	0.89	6.00	22588	5.17	1.06	5.00	2949	5.07	1.08	5.00

8 - Please indicate the extent to which you agree or disagree with each of the following statements:

The out-of-class assignments were educationally valuable.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	0	0.00%								
Agree	(5)	1	20.00%								
Strongly agree	(6)	4	80.00%								
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)	5.80	0.45	6.00	22393	5.11	1.11	5.00	2931	5.12	1.07	5.00

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

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means																										
Strongly disagree	(1)	0	0.00%		6.00	5.31	5.19																								
Disagree	(2)	0	0.00%																												
Somewhat disagree	(3)	0	0.00%																												
Somewhat agree	(4)	0	0.00%																												
Agree	(5)	0	0.00%																												
Strongly agree	(6)	5	100.00%																												
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Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																				
5/6 (83.33%)	6.00	0.00	6.00	24062	5.31	0.97	6.00	2933	5.19	1.04	5.00																				

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means																										
much less than average	(1)	0	0.00%		3.80	4.00	4.00																								
slightly less than average	(2)	0	0.00%																												
average	(3)	1	20.00%																												
slightly more than average	(4)	4	80.00%																												
much more than average	(5)	0	0.00%																												
I have not taken other courses at this level	(6)	0	0.00%																												
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>5/6 (83.33%)</td> <td>3.80</td> <td>0.45</td> <td>4.00</td> <td>2939</td> <td>4.00</td> <td>1.08</td> <td>4.00</td> <td>2939</td> <td>4.00</td> <td>1.08</td> <td>4.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	5/6 (83.33%)	3.80	0.45	4.00	2939	4.00	1.08	4.00	2939	4.00	1.08	4.00			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																				
5/6 (83.33%)	3.80	0.45	4.00	2939	4.00	1.08	4.00	2939	4.00	1.08	4.00																				

11 - The grade I expect in this course is:

Response Option	Weight	Frequency	Percent	Percent Responses	Means																										
not applicable	(1)	0	0.00%		6.75	6.21	6.21																								
pass	(2)	0	0.00%																												
F	(3)	0	0.00%																												
D	(4)	0	0.00%																												
C	(5)	0	0.00%																												
B	(6)	1	25.00%																												
A	(7)	3	75.00%																												
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>4/6 (66.67%)</td> <td>6.75</td> <td>0.50</td> <td>7.00</td> <td>2935</td> <td>6.21</td> <td>1.05</td> <td>6.00</td> <td>2935</td> <td>6.21</td> <td>1.05</td> <td>6.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	4/6 (66.67%)	6.75	0.50	7.00	2935	6.21	1.05	6.00	2935	6.21	1.05	6.00			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																				
4/6 (66.67%)	6.75	0.50	7.00	2935	6.21	1.05	6.00	2935	6.21	1.05	6.00																				

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means																										
0-2	(1)	0	0.00%		2.80	3.02	3.02																								
3-5	(2)	2	40.00%																												
6-9	(3)	2	40.00%																												
10-14	(4)	1	20.00%																												
15 or more	(5)	0	0.00%																												
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>5/6 (83.33%)</td> <td>2.80</td> <td>0.84</td> <td>3.00</td> <td>2947</td> <td>3.02</td> <td>0.99</td> <td>3.00</td> <td>2947</td> <td>3.02</td> <td>0.99</td> <td>3.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	5/6 (83.33%)	2.80	0.84	3.00	2947	3.02	0.99	3.00	2947	3.02	0.99	3.00			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																				
5/6 (83.33%)	2.80	0.84	3.00	2947	3.02	0.99	3.00	2947	3.02	0.99	3.00																				

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Instructor: Dylan Patrick Losey *

Response Rate: 5/6 (83.33 %)

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

•Classify types, features, and current applications of robotic systems

Response Option		Weight	Frequency	Percent	Percent Responses	Means						
Poor	(1)	0	0	0.00%		3.80	3.80	3.80	Question	College	Department	
Fair	(2)	0	0.00%									
Good	(3)	1	20.00%									
Excellent	(4)	4	80.00%									
N/A	(0)	0	0.00%									
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)		3.80	0.45	4.00	5	3.80	0.45	4.00	5	3.80	0.45	4.00

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

•Apply mechatronics design perspective on robotic systems

Response Option		Weight	Frequency	Percent	Percent Responses	Means						
Poor	(1)	0	0	0.00%		3.75	3.75	3.75	Question	College	Department	
Fair	(2)	0	0.00%									
Good	(3)	1	20.00%									
Excellent	(4)	3	60.00%									
N/A	(0)	1	20.00%									
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)		3.75	0.50	4.00	5	3.75	0.50	4.00	5	3.75	0.50	4.00

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

•Utilize spatial descriptions and homogeneous transformations to analyze forward and inverse kinematics

Response Option		Weight	Frequency	Percent	Percent Responses	Means						
Poor	(1)	0	0	0.00%		3.80	3.80	3.80	Question	College	Department	
Fair	(2)	0	0.00%									
Good	(3)	1	20.00%									
Excellent	(4)	4	80.00%									
N/A	(0)	0	0.00%									
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)		3.80	0.45	4.00	5	3.80	0.45	4.00	5	3.80	0.45	4.00

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

•Analyze velocity kinematics and force rendering

Response Option		Weight	Frequency	Percent	Percent Responses	Means						
Poor	(1)	0	0	0.00%		3.60	3.60	3.60	Question	College	Department	
Fair	(2)	1	20.00%									
Good	(3)	0	0.00%									
Excellent	(4)	4	80.00%									
N/A	(0)	0	0.00%									
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
5/6 (83.33%)		3.60	0.89	4.00	5	3.60	0.89	4.00	5	3.60	0.89	4.00

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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

Response Option	Weight	Frequency	Percent	Percent Responses	Means																							
Poor	(1)	0	0.00%				<table border="1"> <tr> <td>Question</td> <td>College</td> <td>Department</td> </tr> <tr> <td>3.60</td> <td>3.60</td> <td>3.60</td> </tr> </table>	Question	College	Department	3.60	3.60	3.60															
Question	College	Department																										
3.60	3.60	3.60																										
Fair	(2)	0	0.00%																									
Good	(3)	2	40.00%	■																								
Excellent	(4)	3	60.00%	■																								
N/A	(0)	0	0.00%																									
<table border="1"> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> <tr> <td>5/6 (83.33%)</td> <td>3.60</td> <td>0.55</td> <td>4.00</td> <td>5</td> <td>3.60</td> <td>0.55</td> <td>4.00</td> <td>5</td> <td>3.60</td> <td>0.55</td> <td>4.00</td> </tr> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	5/6 (83.33%)	3.60	0.55	4.00	5	3.60	0.55	4.00	5	3.60	0.55	4.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
5/6 (83.33%)	3.60	0.55	4.00	5	3.60	0.55	4.00	5	3.60	0.55	4.00																	

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means																							
Poor	(1)	1	20.00%	■			<table border="1"> <tr> <td>Question</td> <td>College</td> <td>Department</td> </tr> <tr> <td>3.00</td> <td>3.00</td> <td>3.00</td> </tr> </table>	Question	College	Department	3.00	3.00	3.00															
Question	College	Department																										
3.00	3.00	3.00																										
Fair	(2)	0	0.00%																									
Good	(3)	1	20.00%	■																								
Excellent	(4)	2	40.00%	■																								
N/A	(0)	1	20.00%	■																								
<table border="1"> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> <tr> <td>5/6 (83.33%)</td> <td>3.00</td> <td>1.41</td> <td>3.50</td> <td>5</td> <td>3.00</td> <td>1.41</td> <td>3.50</td> <td>5</td> <td>3.00</td> <td>1.41</td> <td>3.50</td> </tr> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	5/6 (83.33%)	3.00	1.41	3.50	5	3.00	1.41	3.50	5	3.00	1.41	3.50
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
5/6 (83.33%)	3.00	1.41	3.50	5	3.00	1.41	3.50	5	3.00	1.41	3.50																	

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means																							
Poor	(1)	0	0.00%				<table border="1"> <tr> <td>Question</td> <td>College</td> <td>Department</td> </tr> <tr> <td>3.80</td> <td>3.80</td> <td>3.80</td> </tr> </table>	Question	College	Department	3.80	3.80	3.80															
Question	College	Department																										
3.80	3.80	3.80																										
Fair	(2)	0	0.00%																									
Good	(3)	1	20.00%	■																								
Excellent	(4)	4	80.00%	■																								
N/A	(0)	0	0.00%																									
<table border="1"> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> <tr> <td>5/6 (83.33%)</td> <td>3.80</td> <td>0.45</td> <td>4.00</td> <td>5</td> <td>3.80</td> <td>0.45</td> <td>4.00</td> <td>5</td> <td>3.80</td> <td>0.45</td> <td>4.00</td> </tr> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	5/6 (83.33%)	3.80	0.45	4.00	5	3.80	0.45	4.00	5	3.80	0.45	4.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
5/6 (83.33%)	3.80	0.45	4.00	5	3.80	0.45	4.00	5	3.80	0.45	4.00																	

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means																							
Poor	(1)	0	0.00%				<table border="1"> <tr> <td>Question</td> <td>College</td> <td>Department</td> </tr> <tr> <td>3.20</td> <td>3.20</td> <td>3.20</td> </tr> </table>	Question	College	Department	3.20	3.20	3.20															
Question	College	Department																										
3.20	3.20	3.20																										
Fair	(2)	1	20.00%	■																								
Good	(3)	2	40.00%	■																								
Excellent	(4)	2	40.00%	■																								
N/A	(0)	0	0.00%																									
<table border="1"> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> <tr> <td>5/6 (83.33%)</td> <td>3.20</td> <td>0.84</td> <td>3.00</td> <td>5</td> <td>3.20</td> <td>0.84</td> <td>3.00</td> <td>5</td> <td>3.20</td> <td>0.84</td> <td>3.00</td> </tr> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	5/6 (83.33%)	3.20	0.84	3.00	5	3.20	0.84	3.00	5	3.20	0.84	3.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
5/6 (83.33%)	3.20	0.84	3.00	5	3.20	0.84	3.00	5	3.20	0.84	3.00																	

Virginia Tech
 Fall 2024 VT Student Perceptions of Teaching (SPOT)

Course: ECE_5704_83851_202409: Robotics and Automation-ECE_5704_83851_202409
 Instructor: Dylan Patrick Losey *
 Response Rate: 5/6 (83.33 %)

13 - At the end of this course, how do I rate my ability to:
•Develop force rendering algorithms for a serial robot

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	0	0.00%			3.20	3.20	3.20				
Fair	(2)	1	20.00%	█								
Good	(3)	2	40.00%	█								
Excellent	(4)	2	40.00%	█								
N/A	(0)	0	0.00%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
5/6 (83.33%)	3.20	0.84	3.00	5	3.20	0.84	3.00	5	3.20	0.84	3.00	

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	0	0.00%			3.60	3.60	3.60				
Fair	(2)	0	0.00%									
Good	(3)	2	40.00%	█								
Excellent	(4)	3	60.00%	█								
N/A	(0)	0	0.00%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
5/6 (83.33%)	3.60	0.55	4.00	5	3.60	0.55	4.00	5	3.60	0.55	4.00	

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	0	0.00%			3.25	3.25	3.25				
Fair	(2)	1	20.00%	█								
Good	(3)	1	20.00%	█								
Excellent	(4)	2	40.00%	█								
N/A	(0)	1	20.00%	█								
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
5/6 (83.33%)	3.25	0.96	3.50	5	3.25	0.96	3.50	5	3.25	0.96	3.50	

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

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	1	20.00%	█		3.25	3.25	3.25				
Fair	(2)	0	0.00%									
Good	(3)	0	0.00%									
Excellent	(4)	3	60.00%	█								
N/A	(0)	1	20.00%	█								
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
5/6 (83.33%)	3.25	1.50	4.00	5	3.25	1.50	4.00	5	3.25	1.50	4.00	