Virginia Tech
Fall 2023 VT Student Perceptions of Teaching (SPOT)

Course: ME_4584_87353_202309: Robotics Laboratory-ME_4584_87353_202309
Instructor: Dylan Patrick Losey *
Response Rate: 10/15 (66.67 %)

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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%		
Disagree	(2)	1	11.11%		
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	3	33.33%		
Strongly agree	(6)	5	55.56%		

Means: Question 5.22, College 5.23, Department 5.20

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.22	1.30	6.00	25753	5.23	1.09	6.00	1877	5.20	1.12	6.00

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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%		
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	1	11.11%		
Somewhat agree	(4)	1	11.11%		
Agree	(5)	3	33.33%		
Strongly agree	(6)	4	44.44%		

Means: Question 5.11, College 5.06, Department 5.02

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.11	1.05	5.00	25573	5.06	1.23	5.00	1861	5.02	1.21	5.00

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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%		
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	4	44.44%		
Strongly agree	(6)	5	55.56%		

Means: Question 5.56, College 5.03, Department 4.94

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.56	0.53	6.00	25560	5.03	1.25	5.00	1865	4.94	1.24	5.00

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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%		
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	4	44.44%		
Strongly agree	(6)	5	55.56%		5.56 (Question) 5.35 (College) 5.38 (Department)

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.56	0.53	6.00	25533	5.35	1.03	6.00	1858	5.38	0.94	6.00

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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%		
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	1	11.11%		
Somewhat agree	(4)	2	22.22%		
Agree	(5)	1	11.11%		
Strongly agree	(6)	5	55.56%		5.11 (Question) 5.04 (College) 5.03 (Department)

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.11	1.17	6.00	25412	5.04	1.27	5.00	1856	5.03	1.23	5.00

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

Dylan Patrick Losey

Response Rate	2/15 (13.33%)

- The lab portion of the course did have us using and learning Simulink, which was cool and helpful.
- The TAs were very helpful in lab and usually explained things I did not understand well

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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%		
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	1	11.11%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	2	22.22%		
Strongly agree	(6)	6	66.67%		5.44 (Question) 5.14 (College) 5.12 (Department)

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.44	1.01	6.00	21974	5.14	1.09	5.00	1860	5.12	1.08	5.00

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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%		
Disagree	(2)	0	0.00%		5.33 (Question)
Somewhat disagree	(3)	0	0.00%		4.92 (College)
Somewhat agree	(4)	2	22.22%		4.86 (Department)
Agree	(5)	2	22.22%		
Strongly agree	(6)	5	55.56%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.33	0.87	6.00	21856	4.92	1.31	5.00	1859	4.86	1.31	5.00

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

Response Rate	2/15 (13.33%)

- I could have come to lab with the code already written.
- I should have spent more time before lab preparing useful materials to use during lab

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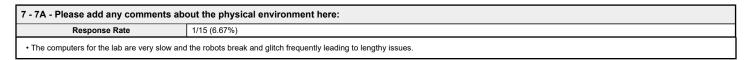
Dylan Patrick Losey

Response Rate	3/15 (20%)

- The lab was super fun!
- I believe that the lab portion of this class needs to be improved. There isn't enough guidance within the lab documentation and the lab itself relies on the Teaching Assistants too much.
- Get updated robots

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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%		
Bad	(2)	0	0.00%		5.33 (Question)
Poor	(3)	1	11.11%		5.23 (College)
Fair	(4)	1	11.11%		5.15 (Department)
Good	(5)	1	11.11%		
Very Good	(6)	6	66.67%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.33	1.12	6.00	21701	5.23	0.94	5.00	1854	5.15	0.96	5.00

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

Response Rate	1/15 (6.67%)

- The computers for the lab are very slow and the robots break and glitch frequently leading to lengthy issues.

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Response Rate: 10/15 (66.67 %)

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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
Strongly disagree	(1)	0	0.00%
Disagree	(2)	0	0.00%
Somewhat disagree	(3)	1	11.11%
Somewhat agree	(4)	1	11.11%
Agree	(5)	1	11.11%
Strongly agree	(6)	6	66.67%

Means: Question 5.33, College 5.08, Department 5.08

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.33	1.12	6.00	21863	5.08	1.07	5.00	1857	5.08	1.03	5.00

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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
Strongly disagree	(1)	1	11.11%
Disagree	(2)	2	22.22%
Somewhat disagree	(3)	0	0.00%
Somewhat agree	(4)	1	11.11%
Agree	(5)	2	22.22%
Strongly agree	(6)	3	33.33%

Means: Question 4.11, College 4.66, Department 4.56

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	4.11	1.96	5.00	21725	4.66	1.41	5.00	1849	4.56	1.40	5.00

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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
Strongly disagree	(1)	0	0.00%
Disagree	(2)	0	0.00%
Somewhat disagree	(3)	0	0.00%
Somewhat agree	(4)	3	33.33%
Agree	(5)	1	11.11%
Strongly agree	(6)	5	55.56%

Means: Question 5.22, College 5.13, Department 5.03

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.22	0.97	6.00	21804	5.13	1.11	5.00	1855	5.03	1.15	5.00

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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
Strongly disagree	(1)	0	0.00%
Disagree	(2)	0	0.00%
Somewhat disagree	(3)	0	0.00%
Somewhat agree	(4)	1	11.11%
Agree	(5)	4	44.44%
Strongly agree	(6)	4	44.44%

Means: Question 5.33, College 5.05, Department 5.00

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.33	0.71	5.00	21677	5.05	1.17	5.00	1843	5.00	1.19	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%		Question 5.56
Disagree	(2)	0	0.00%		College 5.24
Somewhat disagree	(3)	0	0.00%		Department 5.32
Somewhat agree	(4)	0	0.00%		
Agree	(5)	4	44.44%		
Strongly agree	(6)	5	55.56%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	5.56	0.53	6.00	25104	5.24	1.04	6.00	1837	5.32	0.96	6.00

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

Program the robot's forward kinematics, inverse kinematics, and Jacobian.

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	0	0.00%		Question 3.78
Fair	(2)	0	0.00%		College 3.79
Good	(3)	2	22.22%		Department 3.79
Excellent	(4)	7	77.78%		
N/A	(0)	0	0.00%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	3.78	0.44	4.00	34	3.79	0.41	4.00	34	3.79	0.41	4.00

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

Interact with the robot arm and measure it's joint space and workspace; compare the robot's measured position and velocity to the positions and velocities predicted by the robot's kinematics.

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	0	0.00%		Question 3.33
Fair	(2)	2	22.22%		College 3.68
Good	(3)	2	22.22%		Department 3.68
Excellent	(4)	5	55.56%		
N/A	(0)	0	0.00%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	3.33	0.87	4.00	34	3.68	0.59	4.00	34	3.68	0.59	4.00

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

Control the robot arm to track a desired trajectory in joint space and in end-effector space.

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Poor	(1)	1	11.11%		Question 3.00
Fair	(2)	1	11.11%		College 3.47
Good	(3)	4	44.44%		Department 3.47
Excellent	(4)	3	33.33%		
N/A	(0)	0	0.00%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/15 (60.00%)	3.00	1.00	3.00	34	3.47	0.71	4.00	34	3.47	0.71	4.00