Fall 2023 VT Student Perceptions of Teaching (SPOT)

Course: ME_4584_87352_202309: Robotics Laboratory-ME_4584_87352_202309

Instructor: Dylan Patrick Losey *
Response Rate: 13/20 (65.00 %)

1A - The instructor was well prep	ared.											
Dylan Patrick Losey												
Response Option		Weight	Frequency	Percent	Pe	ercent R	espo	onses		Me	eans	
Strongly disagree		(1)	0	0.00%	1				5.62	5.23	5.20	
Disagree		(2)	0	0.00%	1							
Somewhat disagree		(3)	0	0.00%	1							
Somewhat agree		(4)	1	7.69%								
Agree		(5)	3	23.08%								
Strongly agree		(6)	9	69.23%								

6.00

25753

${\bf 1} \ {\bf -Please} \ indicate \ the \ extent \ to \ which \ you \ agree \ or \ disagree \ with \ each \ of \ the \ following \ statements:$

6.00

1B - The instructor presented the subject matter clearly.

Dylan Patrick Losey

13/20 (65.00%)

- ,													
Response Option		Weight	Frequency	Percent	Perc	cent Re	espons	ses		Me	ans		
Strongly disagree		(1)	0	0.00%	1				5.62	5.06	5.02		
Disagree		(2)	0	0.00%	1							l	
Somewhat disagree		(3)	0	0.00%	1								
Somewhat agree		(4)	1	7.69%									
Agree		(5)	3	23.08%		1							
Strongly agree		(6)	9	69.23%									
					0	25	50	100	Question	College	Departme	nt	
Response Rate	Mean	STD N	Median	College	ı	Mean	ST	D	Median	Department	Mean	STD	Median
13/20 (65.00%)	5.62	0.65	6.00	25573		5.06	1.2	23	5.00	1861	5.02	1.21	5.00

1 - Please indicate the ex	tent to which	you agree	or disagr	ee with	each of the	foll	lowing sta	iter	ments:							
1C - The instructor provid	ded feedback	intended t	o improve	my co	urse perforn	nan	ice.									
Dylan Patrick Losey																
Response Option		Weig	ght Freq	uency	Percent	F	Percent Re	esp	onses			Ме	ans			
Strongly disagree		(1)	0	0.00%	1				5.46		5.03	4.94			
Disagree		(2)	0	0.00%	1						0.00	4.54			
Somewhat disagree		(3)	1	7.69%		l									
Somewhat agree		(4)	1	7.69%		l									
Agree		(5)	2	15.38%											
Strongly agree		(6)	9	69.23%											
			•			0	25	50	100	Question	1	College	Departmen	ıt		
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	ST	D.	Median
13/20 (65.00%)	5.46	0.97	6.00		25560		5.03		1.25	5.00		1865	4.94	1.2	24	5.00

1.12

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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		Weigl	nt Frequ	ency	Percent	Pe	ercent F	lesp	onses	Means						
Strongly disagree		(1)	0	1	0.00%					5.62		5.35	5.38			
Disagree		(2)	0	1	0.00%	1										
Somewhat disagree		(3)	0)	0.00%	1										
Somewhat agree		(4)	1		7.69%											
Agree		(5)	3		23.08%											
Strongly agree		(6)	9)	69.23%											
						0	25	50	100	Quest	ion	College	Departme	ent		
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	STD	Med	lian
13/20 (65.00%)	5.62	0.65	6.00		25533		5.35		1.03	6.00		1858	5.38	0.94	6.0	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		Weig	ht Freque	ency Percent		Percent R	espor	ises			Me	ans		
Strongly disagree		(1)	0	0.00%	- 1				5.69		5.04	5.03		
Disagree		(2)	0	0.00%	1							0.00	l	
Somewhat disagree		(3)	0	0.00%	1									
Somewhat agree		(4)	0	0.00%	1									
Agree		(5)	4	30.77%										
Strongly agree		(6)	9	69.23%									l	
				•	0	25	50	100	Question	n	College	Departme	nt	
Response Rate	Mean	STD	Median	College		Mean	S	TD	Median		Department	Mean	STD	Median
13/20 (65.00%)	5.69	0.48	6.00	25412		5.04	1	.27	5.00		1856	5.03	1.23	5.00

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

Dylan Patrick Losey

Response Rate	7/20 (35%)

- · Losey was not involved in the lab.
- The labs related closely to what was being taught in class
- The labs were very nice to help see a physical robot in motion and put the lecture material to the test.
- The lab GTAs were amazing. Not only did they help us understand the lab they were also extremally patient. On top of that we had a lot of fun watching the robots move and had fun talking with the GTAs.
- Answering questions effectively, and actively helping students if it seems they have a problem
- Providing the lab manuals before hand gave us a chance to understnad what we were doing before having to do it. Making sure we knew the topics of the lab before taking them was also a huge help.
- The labs were very well matched with the concepts during lecture without being redundant. In each lab I felt I got to apply what I had learned in the lecture in a practical but unexpected way.

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Response Rate: 13/20 (65.00 %)

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 Responses** Strongly disagree 0 0.00% (1) 5.14 5.12 0 Disagree (2) 0.00% Somewhat disagree (3)0 0.00% Somewhat agree (4) 7.69% 1 Agree (5) 3 23.08% (6) 9 Strongly agree 69.23% 25 100 STD Median Response Rate Mean Median College Mean STD Median Department Mean

5.14

1.09

5.00

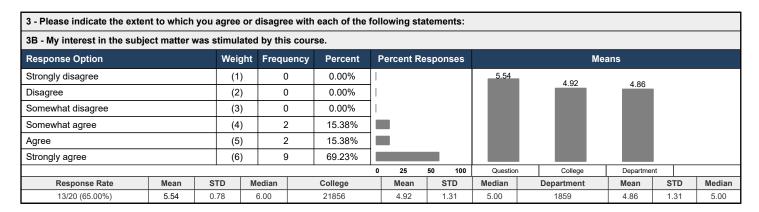
1860

5.12

1.08

5.00

21974



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

5.62

0.65

6.00

Response Rate

7/20 (35%

Been more prepared ahead of time.

13/20 (65.00%)

- Read the labs before the day of so I was better prepared.
- I wish I challenged myself more in the labs rather than just doing what was needed.
- \bullet Reading the lab instructions carefully & preparing a code for the lab to save the time
- I could've tried to write all the matlab code before going to the lab. I would typically attempt to write some code but if it seemed to difficult I would wait until I could ask the lab TAs.
- · paid attention in class
- I could have experimented more during the labs.

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

Dylan Patrick Losey

Response Rate

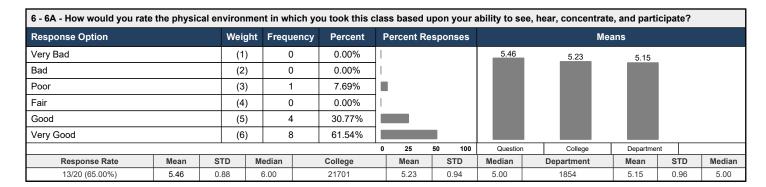
4/20 (20%)

- Again, Dr. Losey is an amazing prof. Would take him for every class if I could have.
- This lab was helpful to understand and learn how we should use the robotics theory to control the robot
- The lab was a great way to physically demonstrate the knowledge that we learned throughout the course. I got a much deeper understanding of what it was we were learning by completeing the labs.
- Some of the lab questions were basic to the point of being confusing. Once or twice I was confused on a question because I thought it was asking for a more complex answer than it really was. This is not a big issue.

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Response Rate: 13/20 (65.00 %)



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

Response Rate 5/20 (25%)

- fine
- The computers are slow. Faster ones would improve the experience.
- N/A
- · Students working hard on the lab

13/20 (65.00%)

• The lab space was very open, plenty of room to walk around and ask question if need be.

5.62

0.51

6.00

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% 5.08 5.08 0 0.00% Disagree (2) Somewhat disagree (3) 0 0.00% Somewhat agree (4) 0 0.00% (5) 5 38.46% Agree 8 (6) 61.54% Strongly agree 100 50 25 Question College Department Response Rate Mean STD Median College Median STD Median Mean Department

5.08

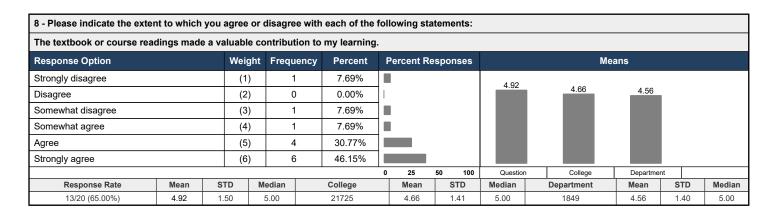
5.00

1857

1.03

5.00

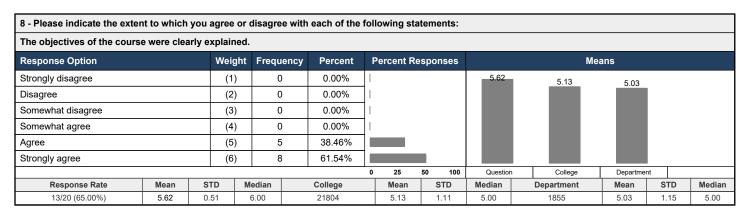
21863

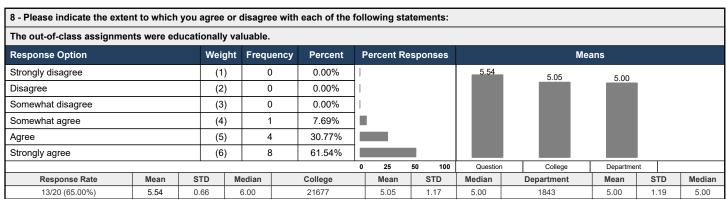


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Dylan Patrick Losey															
-															
Response Option		Weig	ght Free	quency	Percent	ercent Percent Responses				Means					
Strongly disagree		(1)	0	0.00%	1				5.58		5.24	5.32		
Disagree		(2)	0	0.00%										
Somewhat disagree		(3)	0	0.00%										
Somewhat agree		(4)	1	8.33%										
Agree		(5)	3	25.00%										
Strongly agree		(6)	8	66.67%										
					•	0	25	50	100	Question	1	College	Departmer	ıt	
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	STD	Median
12/20 (60.00%)	5.58	0.67	6.00		25104		5.24	1	1.04	6.00		1837	5.32	0.96	6.00

10 - At the end of this cou	ırse, how do	I rate my ab	ility to:										
Program the robot's forw	ard kinemati	cs, inverse l	cinematics,	and Jacobian.									
Response Option		Weigl	ht Freque	ncy Percent	Percent	Percent Responses Means							
Poor		(1)	0	0.00%	1			3.69	3.79	3.79			
Fair		(2)	0	0.00%	1								
Good		(3)	4	30.77%									
Excellent		(4)	9	69.23%									
N/A		(0)	0	0.00%	1								
		'	'	<u> </u>	0 25		50 100	Question	n College	Departme	nt		
Response Rate	Mean	STD	Median	College	Mear	ı	STD	Median	Department	Mean	STD	Median	
13/20 (65.00%)	3.69	0.48	4.00	34	3.79		0.41	4.00	34	3.79	0.41	4.00	

13/20 (65.00%)

3.69

0.48

4.00

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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** 3 68 3 68 Poor 0.00% (1) 0 0 0.00% Fair (2) (3) 4 30.77% Excellent (4) 9 69.23% N/A 0 0.00% (0) 25 100 Question College Department College Response Rate Median Mean STD STD Median STD Median Mean Department Mean

3.68

0.59

4.00

34

3.68

0.59

4.00

34

