21/24 (87.50%)

21/24 (87.50%)

5.81

5.71

0.51

0.56

6.00

6.00

Fall 2022 VT Student Perceptions of Teaching (SPOT)

Course: ME_4584_87342_202209: Robotics Laboratory-ME_4584_87342_202209

Instructor: Dylan Patrick Losey *
Response Rate: 21/24 (87.50 %)

	ared.											
Oylan Patrick Losey												
Response Option		Weight	Frequency	Percent	P	ercent F	Respo	nses		Me	ans	
Strongly disagree		(1)	0	0.00%	1				5.81	5.25_	5.11	
Disagree		(2)	0	0.00%	1							
Somewhat disagree		(3)	0	0.00%	1							
Somewhat agree		(4)	1	4.76%								
Agree		(5)	2	9.52%								
Strongly agree		(6)	18	85.71%								

5.25

1.06

1.20

5.00

6.00

5.11

4.84

2388

1.38

5.00

24710

24533

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** Percent Responses Means **Response Option** Weight Frequency Percent 0.00% Strongly disagree (1) 0 5.07 4.84 0 Disagree (2) 0.00% 0 Somewhat disagree (3) 0.00% Somewhat agree (4) 4.76% 4 Agree (5) 19.05% (6) 16 76.19% Strongly agree 25 100 Question College Department Response Rate STD Median Mean STD Median College Mean STD Median Department Mean

5.07

1 - Please indicate the exter	nt to which	you agree	or disagre	ee with each	of the fo	ollowing st	atement	s:						
1C - The instructor provide	d feedback	intended to	improve	my course	performa	ance.								
Dylan Patrick Losey														
Response Option	iency Pe	Percent Percent Responses Means												
Strongly disagree		(1)	1	1 4.	.76%				5.38		5.01	4.74		
Disagree		(2)	(0.	.00%							4.74	1	
Somewhat disagree		(3)	(0.	.00%	1								
Somewhat agree		(4)	2	2 9.	.52%									
Agree		(5)		1 19	.05%									
Strongly agree		(6)	1	4 66	5.67%									
						0 25	50	100	Question	1	College	Departme	nt	
Response Rate	Mean	STD	Median	Coll	ege	Mean	STD)	Median		Department	Mean	STD	Median
21/24 (87.50%)	5.38	1.20	6.00	245	26	5.01	1.25	5	5.00		2385	4.74	1.40	5.00

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Course: ME_4584_87342_202209: Robotics Laboratory-ME_4584_87342_202209

Instructor: Dylan Patrick Losey *
Response Rate: 21/24 (87.50 %)

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		Weig	ht Frequ	iency	Percent	Р	ercent R	esp	onses			Me	ans			
Strongly disagree		(1)	C)	0.00%	1				5.81		5.36	5.18			
Disagree		(2)	С)	0.00%											
Somewhat disagree		(3)	C)	0.00%	1										
Somewhat agree		(4)	1	I	4.76%											
Agree		(5)	2	2	9.52%											
Strongly agree		(6)	18	8	85.71%											
						0	25	50	100	Questio	n	College	Departm	ent		
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	S.	TD	Median
21/24 (87.50%)	5.81	0.51	6.00		24481		5.36		1.00	6.00		2383	5.18	1.	.13	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		Weigh	t Frequenc	y Percent	P	ercent R	espo	onses			Me	ans			
Strongly disagree		(1)	0	0.00%					5.76	<u> </u>	5.05	4.81			
Disagree		(2)	0	0.00%								4.01	ı		
Somewhat disagree		(3)	0	0.00%											
Somewhat agree		(4)	1	4.76%											
Agree		(5)	3	14.29%											
Strongly agree		(6)	17	80.95%											
					0	25	50	100	Question	n	College	Departme	nt		
Response Rate	Mean	STD	Median	College		Mean		STD	Median		Department	Mean	ST	D D	Median
21/24 (87.50%)	5.76	0.54	6.00	24389		5.05		1.24	5.00		2372	4.81	1.4	11	5.00

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

Dylan Patrick Losey

Response Rate 13/24 (54.17%)

- Having a whole team of TAs present allowed us to ask questions throughout the lab and ensure that we were understanding small steps well. We also were able to form teams by choice it was great to work with friends with a similar understanding of course concepts so that the lab was fun and fair.
- The instructions were well organized and it was very helpful to have the setup on each of the lab documents.
- Dr. Losey provides practice problems that allow us to practice what we learn from the class.
- N/A
- Labs were fun and relevant to the current course material
- Let us into the lab early for the labs that took longer towards the end of the semester, TAs were very knowledgeable and able to help find problems
- See robotics spot survey
- The labs gave us an opportunity to apply what we had learned in class and interact with a real robot.
- All the slide decks were concise and easy to follow even if I missed class. Lots of practice problems with given solutions were great to help with homework and test prep
- Having videos at almost every start of the lecture to help students understand what the materials of the lecture were about. We did not have to try to figure out what these materials would help us or what their applications are in the real world would be.
- Explained the theory behind the labs clearly. Also the GTA's were very helpful and were knowledgeable on the subject matter and common issues with the lab equipment.
- His in class examples and questions
- I thought that these labs were really well thought out. For me, hands on learning is the best kind of learning. I liked how the labs were very in sync with the lecture.

21/24 (87.50%)

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Instructor: Dylan Patrick Losey *

Response Rate: 21/24 (87.50 %)

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 4.99 0 Disagree (2) 0.00% Somewhat disagree (3)0 0.00% Somewhat agree (4) 4.76% 1 Agree (5) 5 23.81% (6) 15 Strongly agree 71.43% 25 50 100 STD Median Mean STD Median Response Rate Mean Median College Mean Department

5.14

1.08

5.00

2066

4.99

1.19

5.00

21442

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. Frequency Means **Response Option** Weight Percent **Percent Responses** 5.57 Strongly disagree (1) 0 0.00% 4.90 4.72 Disagree (2)0 0.00% Somewhat disagree (3)0 0.00% Somewhat agree (4) 2 9.52% (5) 5 23.81% Agree 14 66.67% Strongly agree (6)25 100 Question College Department STD STD Median Response Rate Mean College Mean STD Department 21/24 (87.50%) 5.57 0.68 6.00 21326 4.90 1.31 5.00 2057 4.72 1.41 5.00

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

Response Rate 10/24 (41.67%)

5.67

0.58

6.00

- I sometimes found the lab material confusing and allowed a team member to work through a question rather than learning it myself. I would contribute more/ primarily on other questions, however, so the labs did feel fair.
- N/A
- I should have spent more time immediately after the class to deepen the material we learn during the class.
- Better lab prep before the actual time slot. I figured this out about halfway through the semester once I got a poor grade on a lab.
- None
- · Worked more on the assignments before the day of the lab
- · See robotics spot survey
- I could have prepared for the labs ahead of time.
- Gone to the lab earlier at the beginning of the semester to get a bigger head start and made the time constraint less of an issue so I could have focused on the material more than the time.
- I could have prepared some of the code before the lab

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Instructor: Dylan Patrick Losey *
Response Rate: 21/24 (87.50 %)

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

Dylan Patrick Losey

Response Rate 6/24 (25%)

- Some of the labs were barely finished in the provided time. Increasing the lab time by 15-20 minutes would have been helpful.
- It's kind of unfair to have the lab room open way before the lab time is actually started because students who have class right before get there right on time and even then just have to join some random group and its super crowded and they're so much more behind than the other students who get to the lab like an hour before it even starts.
- None
- Lab was quite interesting, and it was invigorating to use the knowledge we had gained from lecture in a physical sense. The only problem I had with it was the implementation of matlab code in the simulink models, often requiring us to write the code for the functions on the fly. This is difficult and time consuming, as we should be spending the lab time implementing and analyzing the effects that the code has on the robot, not writing it the entire time. I often found myself falling behind the other groups in the lab as we spent the majority of each lab debugging each script we had to write, and we were often the last to leave. Simply have the code that is already given to us in lecture pre-written for the labs, and it would be much more interesting
- · Great teacher! Looking forward to human robot interaction
- The labs were fun and very interesting but definitely challenging at times. Overall, I would not change the labs.

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 Percent Responses** Weight Frequency Percent Very Bad (1) 0 0.00% 5.10 5.20 5.12 0 Bad (2) 0.00% Poor (3)4.76% Fair (4)6 28.57% Good (5) 4 19.05% Very Good 10 47.62% (6)25 100 Mean Response Rate STD Median Mean STD Median STD Median College Department Mean 21/24 (87.50%) 5.10 1.00 21272 5.20 0.93 2051 5.12 1.02 5.00

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

Response Rate

9/24 (37.5%)

- Sometimes the lab benches were crowded and it was hard to move around. Also, the laptops were incredibly slow and frustrating
- The lab space was small and made it difficult to focus at times.
- The lab space was kind of small for the amount of students in there at once.
- Computers were very slow at times
- A bit cramped and the computers are very old, but it didn't affect learning that much
- The computer was too too too tooo too slow to run the program
- N/A
- The computers in the lab were a major issue. They were very slow and made troubleshooting and iterative work that was required for the lab difficult because they were slow. Also the room we did the lab in was small and cramped for the number of stations required for the lab.
- The lab room was very crowded. It was difficult to find table space to work on the lab.

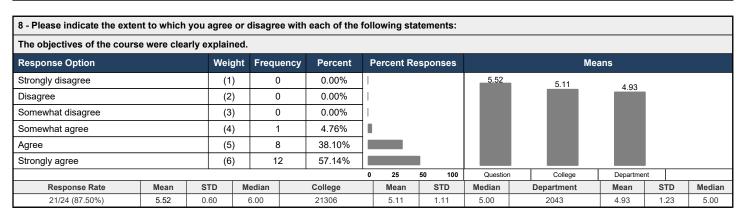
8 - Please indicate the extent to which you agree or disagree with each of the following statements: I improved my ability to problem solve. **Response Option** Weight Frequency Percent **Percent Responses** Means Strongly disagree (1) 0 0.00% 5.38 5.08 5.02 0 0.00% (2)0 0.00% Somewhat disagree (3)2 Somewhat agree (4)9.52% Agree (5)9 42 86% (6) 10 47.62% Strongly agree 100 College Department Response Rate Mean STD Median College Mean STD Median Department Mean STD Median 21/24 (87.50%) 5.38 0.67 5.00 21365 5.08 5.00 5.02 5.00 1.04 2055 1.09

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Instructor: Dylan Patrick Losey *
Response Rate: 21/24 (87.50 %)

8 - Please indicate the exter	8 - Please indicate the extent to which you agree or disagree with each of the following statements:														
The textbook or course rea	dings mad	e a valuabl	e contribu	tion to	my learning.										
Response Option Weight Frequency Percent								esponse	;			Me	ans		
Strongly disagree		(1)	1	4.76%					4.04					
Disagree		(2)	1	4.76%					4.81		4.63	4.50	ı	
Somewhat disagree		(3)	1	4.76%										
Somewhat agree		(4)	2	9.52%										
Agree		(5)	9	42.86%										
Strongly agree		(6)	7	33.33%										
			·			0	25	50 10	0	Question	1 (College	Departme	nt	
Response Rate	Mean	STD	Median		College		Mean	STD	Me	edian	Depar	tment	Mean	STD	Median
21/24 (87.50%)	4.81	1.36	5.00		21251		4.63	1.41	5	5.00	20	49	4.50	1.43	5.00



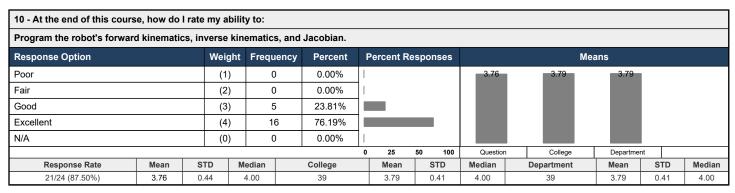
The out-of-class assignment	ents were ed	lucationally	y valua	ble.												
Response Option Weight Frequency Percent							ercent Re	esp	onses			Me	ans			
Strongly disagree		(1)	0	0.00%	1				5.19		5.03	4.04			
Disagree		(2)	1	4.76%								4.84			
Somewhat disagree		(3)	0	0.00%											
Somewhat agree		(4)	2	9.52%											
Agree		(5)	9	42.86%											
Strongly agree		(6)	9	42.86%											
						0	25	50	100	Question	ì	College	Departme	nt		
Response Rate	Mean	STD	Media	an	College		Mean		STD	Median		Department	Mean	ST	D	Median
21/24 (87.50%)	5.19	0.98	5.00)	21178		5.03		1.18	5.00		2039	4.84	1.3	30	5.00

9 - The instructor related th	eories and	concepts t	o practica	l issue	s.										
Dylan Patrick Losey															
Response Option		Weig	jht Frequ	uency	Percent	Pe	ercent R	espon	ses			Ме	ans		
Strongly disagree		(1)) ()	0.00%	1				5.45		5.25	5.12		
Disagree		(2)	, ,	1	5.00%										
Somewhat disagree		(3)) ()	0.00%	1									
Somewhat agree		(4)) 2	2	10.00%										
Agree		(5)) :	3	15.00%										
Strongly agree		(6)) 1	4	70.00%										
		•				0	25	50	100	Question	ı	College	Departmen	nt	
Response Rate	Mean	STD	Median		College		Mean	S	TD	Median		Department	Mean	STD	Median
20/24 (83.33%)	5.45	1.05	6.00		24126		5.25	1.	01	6.00		2346	5.12	1.14	5.00

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Response Rate: 21/24 (87.50 %)



10 - At the end of this co	ırse, how do	I rate my ab	ility to:											
Interact with the robot are predicted by the robot's l		re it's joint s	space and v	vorkspace; com	pare the i	robo	t's m	easur	ed positior	n and v	elocity to th	ne positions	and vel	ocities
Response Option	Percer	nt Re	spor	ises			N	leans						
Poor		(1)	0	0.00%	1				3.71		3.71	3.71		
Fair		(2)	0	0.00%	1									
Good		(3)	6	28.57%										
Excellent		(4)	15	71.43%										
N/A		(0)	0	0.00%	1									
		•		•	0 25	5	50	100	Question	1	College	Departme	nt	
Response Rate	Mean	STD	Median	College	Me	an	S	TD	Median	D	epartment	Mean	STD	Median
21/24 (87.50%)	3.71	0.46	4.00	39	3.7	'1	0	.46	4.00		39	3.71	0.46	4.00

10 - At the end of this cou	10 - At the end of this course, how do I rate my ability to:														
Control the robot arm to t	rack a desir	ed trajector	y in joint	space a	and in end-ef	fect	tor space	э.							
Response Option	Percent	P	ercent R	es	ponses			Mea	ans						
Poor		(1))	0	0.00%					3.62		3.63	3.63	1	
Fair		(2))	1	4.76%										
Good		(3))	6	28.57%										
Excellent		(4))	14	66.67%										
N/A		(0))	0	0.00%	1									
						0	25	50	100	Question	ı	College	Departmen	nt	
Response Rate	Mean	STD	Median		College		Mean		STD	Median		Department	Mean	STD	Median
21/24 (87.50%)	3.62	0.59	4.00		39		3.63		0.59	4.00		39	3.63	0.59	4.00