## Virginia Tech

Fall 2023 VT Student Perceptions of Teaching (SPOT)

Course: ECE_5704_83842_202309: Robotics and Automation-ECE_5704_83842_202309
Instructor: Dylan Patrick Losey *
Response Rate: 11/11 (100.00 \%)



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


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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



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

## Dylan Patrick Losey

 understand the complex topics.

- Practice problems after every lecture were very helpful.
 there. Being willing to grant some homework extensions was super helpful.
 picture.


 homeworks, and they covered every concept we learned, so we got to practice every new concept. It's tough to actually retain information unless it is practiced, so this was very important.
- The organization of the topics was effective in providing clarity on the reasons for learning those particular concepts
- Not much


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| 4-4A - What could you have done to be a better learner? |  |
| :--- | :--- |
| Response Rate | $7 / 11$ (63.64\%) |
| - If projects were a part of the course rather than 2 exams (mid-term and the finals), it would have been perfect. As the instructor provided flawless homeworks, it would have been excellent if there |  |
| was a project snuck-in somewhere or some kind of a practical application of the concepts taught in the class. |  |
| - Asked more questions during class. |  |
| - I should've spent more time on assignments as they were lengthy. |  |
| - Go to the supported labs for the course (they were optional for me, as I am in the grad section) to further practice material, but I did not have the time to prioritize that. |  |
| - Started working on Homeworks early |  |
| - Discuss more with TA |  |
| - Flexible exam |  |

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

## Dylan Patrick Losey

| Response Rate | $5 / 11(45.45 \%)$ |
| :--- | :--- |

## - Great professor

- I felt that all of the homework were pretty fair, except the controls homework. A few of the questions did not seem reasonable and I am not sure why the multivariable stability was covered since there was not much that we did aside from some abstract proof. If simulink is expected to be used for a homework, a quick tutorial in class or recorded video would have been tremendously helpful. For this type of class, paper tests aren't a good fit. I understand it is probably to ensure that people weren't cheating but the test questions were a bit awkward given the necessity of coding for robotics. An applied project would be a better fit, having students select a robot or construct one themselves and apply all of the topics would likely have been a better educational experience.
- The grading had too much attention to detail. I've noticed there were marks assigned to presentability (ex. simplifying space Jacobian) and sometimes there should've been scope for partial credit.
- Honestly, this course was probably top 3 from my entire time at Virginia Tech for the reasons explained above. Additionally, it is obvious that the professor is passionate about robotics, which helps me stay engaged during class. The coursework is also definitely well-prepared.
- TAs are very strict in grading


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| 7-7A - Please add any comments about the physical environment here: |  |
| :--- | :--- |
| Response Rate | $1 / 11(9.09 \%)$ |
| - No complaints. |  |




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| 9 - The instructor related theories and concepts to practical issues. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dylan Patrick Losey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Response Option |  |  | Weight |  | Frequ | uency | Percent | Percent Responses |  |  | Means |  |  |  |  |
| Strongly disagree |  |  | (1) |  |  | 0 | 0.00\% |  |  |  | 5.60 | 5.24 | 5.18 |  |  |
| Disagree |  |  | (2) |  |  | 0 | 0.00\% |  |  |  |  |  |  |  |
| Somewhat disagree |  |  | (3) |  |  | 0 | 0.00\% |  |  |  |  |  |  |  |
| Somewhat agree |  |  | (4) |  |  | 1 | 10.00\% |  |  |  |  |  |  |  |
| Agree |  |  | (5) |  |  | 2 | 20.00\% |  |  |  |  |  |  |  |
| Strongly agree |  |  | (6) |  |  | 7 | 70.00\% |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | $0 \quad 25$ | 50 | 100 |  | Question | College | Department |  |  |
| Response Rate | Mean | STD |  |  | dian |  | College | Mean |  | STD |  | Median | Department | Mean | STD | Median |
| 10/11 (90.91\%) | 5.60 | 0.70 |  |  | 6.00 |  | 25104 | 5.24 |  | 1.04 |  | 6.00 | 2929 | 5.18 | 1.05 | 5.00 |



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


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

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


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

-Apply mechatronics design perspective on robotic systems


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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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Response Option |  |  | Weight |  | Frequency | Percent | Percent Responses |  |  |  | Means |  |  |  |  |
| Poor |  |  | (1) |  | 0 | 0.00\% |  |  |  |  | 3.20 | 3.20 | 3.20 |  |  |
| Fair |  |  | (2) |  | 1 | 10.00\% |  |  |  |  |  |  |  |  |  |
| Good |  |  | (3) |  | 6 | 60.00\% |  |  |  |  |  |  |  |  |  |
| Excellent |  |  | (4) |  | 3 | 30.00\% |  |  |  |  |  |  |  |  |  |
| N/A |  |  | (0) |  | 0 | 0.00\% |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 0 | 25 | 50 | 100 | Question | Department | Department |  |  |
| Response Rate | Mean | STD |  |  | dian | College |  | Mean |  | STD | Median |  | Mean | STD | Median |
| 10/11 (90.91\%) | 3.20 | 0.63 |  |  | 3.00 | 10 |  | 3.20 |  | 0.63 | 3.00 | 10 | 3.20 | 0.63 | 3.00 |



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