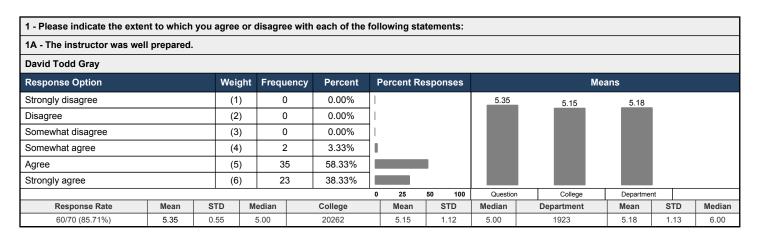
Spring 2019 VT Student Perceptions of Teaching (SPOT)

Course: ENGE 1216 13948 201901: (13948) Foundations of Engineering-ENGE 1216 13955 201901

Instructor: David Todd Gray *
Response Rate: 61/70 (87.14 %)



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. **David Todd Gray Response Option** Weight Frequency Percent **Percent Responses** Means Strongly disagree 1.67% (1) 1 5.02 5.00 4.89 Disagree (2) 0 0.00% Somewhat disagree (3) 3 5.00% П Somewhat agree (4) 8 13.33% 30 (5) 50.00% Agree 18 Strongly agree (6) 30.00% 100 25 50 Question College Department College Response Rate Mean STD Median STD Median Mean STD Median Department Mean 60/70 (85.71%) 5.00 0.96 5.00 20149 4.89 1.31 5.00 1905 5.02 1.21 5.00

1 - Please indicate the ex	tent to which	you agree	or disag	ree with	each of the	foll	lowing sta	atements	3 :						
1C - The instructor provid	led feedback	intended	to improv	e my co	ourse perform	nan	ice.								
David Todd Gray															
Response Option		Wei	ght Fred	luency	ency Percent Percent Responses						Me	ans			
Strongly disagree		(1)	1	1.67%	Ι				5.07		4.87	5.06		
Disagree		(2)	1	1.67%	ı						4.07			
Somewhat disagree		(3)	3	5.00%										
Somewhat agree		(4)	8	13.33%										
Agree		(5)	22	36.67%										
Strongly agree		(6)	25	41.67%										
		•				0	25	50 10	00	Question		College	Departmen	t	
Response Rate	Mean	STD	Median		College		Mean	STD		Median		Department	Mean	STD	Median
60/70 (85.71%)	5.07	1.09	5.00		20167		4.87	1.32	Т	5.00		1909	5.06	1.18	5.00

Spring 2019 VT Student Perceptions of Teaching (SPOT)

Course: ENGE_1216_13948_201901: (13948) Foundations of Engineering-ENGE_1216_13955_201901

Instructor: David Todd Gray *
Response Rate: 61/70 (87.14 %)

1D - The instructor fostered	d an atmos	phere of mu	tual respec	t.										
David Todd Gray														
Response Option		Weigl	nt Freque	ncy Percent	Pe	ercent Re	esponses	Means						
Strongly disagree		(1)	0	0.00%				5.70		5.26	5.47			
Disagree		(2)	0	0.00%										
Somewhat disagree		(3)	0	0.00%	1									
Somewhat agree		(4)	2	3.33%	ı									
Agree		(5)	14	23.33%										
Strongly agree		(6)	44	73.33%										
				•	0	25	50 100	Question	1	College	Departmer	nt		
Response Rate	Mean	STD	Median	College		Mean	STD	Median	De	epartment	Mean	STD	Media	
60/70 (85.71%)	5.70	0.53	6.00	20146		5.26	1.10	6.00		1908	5.47	0.90	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. **David Todd Gray** Percent Responses Means **Response Option** Weight Frequency Percent 0 0.00% Strongly disagree (1) 5.25 5.05 4.88 3 Disagree (2) 5.00% Somewhat disagree (3) 1 1.67% Somewhat agree (4) 1 1.67% (5) 28 46.67% Agree Strongly agree (6) 27 45.00% 100 Question College Department Response Rate Mean STD STD Median Median College Mean STD Median Department Mean 60/70 (85.71%) 5.25 0.97 5.00 20065 4.88 5.00 1900 5.05 1.23 5.00 1.34

Spring 2019 VT Student Perceptions of Teaching (SPOT)

Course: ENGE 1216 13948 201901: (13948) Foundations of Engineering-ENGE 1216 13955 201901

Instructor: David Todd Gray *
Response Rate: 61/70 (87.14 %)

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

David Todd Gray

Response Rate

57/70 (81.43%)

- David Gray is new, I know this. As a class, we voiced many concerns over inconsistent/unfair grading policies, and ineffective teaching methods. Most of our qualms were with the ENGE department as a whole, so his hands were tied. Despite all that, he went out of his way to get our feedback and did his best to alter the course to our requests. I've never had a professor who put so much effort into improving his teaching style David Gray will be a terrific professor when he settles in.
- · Had many explanations and was always presenting things in a fun way that made class enjoyable.
- He made the class fun and engaging even when we were doing something boring.
- · The in class activities
- · Great humor, overall well-rounded instructor, cares about his students
- · He was always available for questions via email and office hours and before/after class.
- · Interactive funny and effective
- He made the atmosphere friendly and not too serious that the class was relaxed
- · Always asked for feedback on his teaching so he could help us understand topics better
- · He engaged well with the classroom
- The instructor wanted to improve how he taught, which I found helpful.
- · he kept it fun while still teaching the material.
- · He always did his best to make class interesting and engaging to his students.
- · Formatted the class in a casual manner allowing for free flow of ideas
- He provided a good bit of examples in class to help us with new materials.
- In the beginning of class, he starts out with jokes and feedback from us from the previous class. It keeps m engaged and starts the class off light.
- I really enjoyed how he broke the class up in to various sections. It prevented class from being really boring and actually kept most people engaged. He rarely spent too much time lecturing.
- He made everything very relatable and his templates he provided were really helpful.
- Mustache
- Dr. Gray was fantastic. He made sure everyone understood what was going on, even if he did not know himself. He was always respectful and funny in class, which made it better.
- Everyday, Dr.Gray would spend some time in class going over some of aspects of different branches of engineering throughout the year. This helped expand my knowledge of engineering overall and made me even more assured of my desired major.
- His calm attitude and funny nature made the material enjoyable and the class easier to understand.
- Good lectures, but the drone project designed by the engineering department was awful.
- I could tell he wanted to make class an enjoyable experience and I could tell that he went the extra mile to keep his students engaged
- · Provided an abundance of resources on canvas
- He offered his help willingly no matter when and where, overall a very helpful teacher.
- · He explained things well.
- When we had questions regarding code performance or output, he would always respond to emails promptly and make time during office hours and after class times to help us with debugging code or solid works help.
- · Kept the class engaging and fun.
- · Made class humorous and enjoyable
- He went into detail on the concepts that were most important.,
- · Very interactive and involved in class
- · He took time out to make sure each team was sucessful
- Good communication
- Made the classes entertaining.
- Made class a very open comfortable environment
- Dr. Gray put very informative rubrics on canvas that showed what he expected of us
- He saw things from the perspective of the students. I feel he really understood us and as a result he was effective at explaining and grading assignments. He was also aware if when we had tests for other classes and accounted for that.
- Made the class fun, so it was easy to pay attention.
- He arranged the activities and assignments to help us learn and enjoy the material more.
- Made the class as interesting as possible and was very involved in helping the students stay on track.
- The professor was easy going, funny, and approachable
- The instructor was very grounded in his lectures. He taught to the audience and it really made the curriculum connect with his students
- HippoBidness
- He made the class enjoyable and more interesting than it actually is.
- He gave us time to work on assignments during class so that we could easily ask him questions
- He made it fun and engaging

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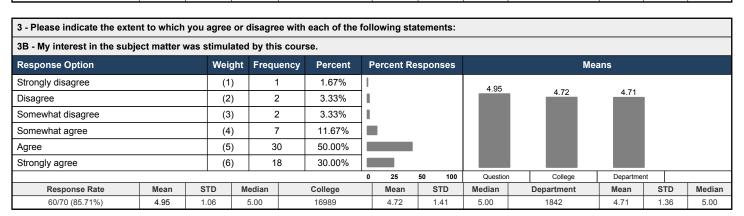
Course: ENGE 1216 13948 201901: (13948) Foundations of Engineering-ENGE 1216 13955 201901

- The instructor would provide 1 on 1 help during office hours, helping me gain a better understanding of how to code. He also made the class fun and engaging, making me enjoy the class.
- Made the environment fun and easy to learn in.
- He was very knowledgeable about the information he presented on, and he provided examples when it came to things such as Matlab or solidworks.
- He was engaging and used humor to make a class that could have been very boring very engaging. This is a class I wanted to go to every day.
- Dr. Gray allowed us to suggest ways to help us better succeed in the class after a few issues with ambiguity on assignments arose at the beginning of the year. He improved upon the way he created assignment descriptions and provided rubrics to allow students to better understand assignments.
- I enjoyed his sense of humor that made listening to his lectures enjoyable. He was well prepared for all of the classes and showed genuine concern for the way his class performed. He always looked for feedback from us in order to improve his class.
- · He kept class fun and presented the material in an interesting way
- He was super fun and engaging. He made the material interesting. He was also super encouraging. You could tell he had a genuine interest in his students success as engineers.
- He was always willing to help when there was an issue with grades or assignments
- Dr. Gray was very attentive in listening to and addressing students' concerns throughout the semester. While I did not personally voice any, his intent on restructuring certain aspects of his curriculum was very helpful to the way I learned in his class.

Spring 2019 VT Student Perceptions of Teaching (SPOT)

Course: ENGE_1216_13948_201901: (13948) Foundations of Engineering-ENGE_1216_13955_201901

3 - Please indicate the exter	nt to which	you agree	or disagre	e with each	of the fo	ollowing sta	atements:							
3A - I have a deeper unders	tanding of	the subjec	matter as	a result of t	his cou	rse.								
Response Option		Weig	ht Frequ	iency Perd	rcent Percent Responses			Means						
Strongly disagree		(1)	(0.0	0%	1		4.95	5.02	4.87				
Disagree		(2)		1.6	7%	I		4.55]	4.07	l			
Somewhat disagree		(3)	2	2 3.3	3%	I								
Somewhat agree		(4)	1	1 18.3	33%									
Agree		(5)	3	1 51.6	67%									
Strongly agree		(6)	1	5 25.0	00%									
				•	,	0 25	50 100	Questio	n College	Departme	nt			
Response Rate	Mean	STD	Median	Colleg	ge	Mean	STD	Median	Department	Mean	STD	Median		
60/70 (85.71%)	4.95	0.85	5.00	1706	3	5.02	1.17	5.00	1852	4.87	1.20	5.00		



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Response Rate: 61/70 (87.14 %)

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

Response Rate

55/70 (78.57%)

Honestly, ENGE 1216 is a STUPID course the way it's run now. The drone project is so ill-structured as to be impossible and an absolute waste of time. None of this is the professors' fault. I realized how pointless the projects were, so I did the bare minimum to get the grade I wanted. I doubt any action on my part would actually have led me to learn more, since none of this class was geared towards learning.

- · Attended class more
- · Not fall asleep in class as much.
- NA
- Im not sure. Maybe go to office hours for MATLAB help, but other than that, everything was fine.
- I could have done the assignments earlier and not waited until the day before or the day of for the majority of the assignments
- · Went to every class lol
- I could've been more attentive to the "engineeringness"
- nothing
- · dove into the information more.
- It would have been helpful to get personalized comments on assignments, and not just a filled out rubric. Even only a few words, such as "Good job" or asking a question to foster deeper thinking would be nice
- seen it as more of a learning experience rather than just assignments to get done.
- · I could have asked more questions and gone to office hours more.
- · Worked ahead
- · I could have gone to office hours more.
- Pay attention to all the slides. Sometimes they are a bit bland and dont hold my attention
- · I could have paid more attention in class.
- I could have asked for more help on MATLAB when I was struggling and done the assignment more in advance.
- · Not get up for juice during class
- I could have paid more attention and tried a little harder.
- ullet I could have spent more time practicing concepts we learned in class on my own, such as matlab.
- I could've made more time to my engineering commitments outside of class.
- NA
- I could have tried to make an active effort to engage my teammates more
- I could have payed attention more in class.
- I could have practiced Matlab more.
- I could've finished the assignments well before due date so I would not need last minute aid.
- Pay attention in class more
- I could have paid more attention during the lectures
- Ask more questions
- · Written down assignments
- I could've focused more during the lectures.
- \bullet I just think the drone project had to little of a focus on making a functional drone
- I could have paid more attention in class.
- Payed a little more attention in class and tried harder on some assignments.
- \bullet Dr. Gray did a great job, but I really wish there was more major specific stuff.
- \bullet I could have payed more attention in class and put more effort into assignments.
- Put in more effort to fully understand the material.
- · More recourses for MATLAB
- Been more engaged and follow the design process
- I could have been more active in learning more advanced Solid Works design techniques.
- Stayed attentive. More sleep required for this to happen though.
- Be more proactive when completing assignments.
- $\bullet \ i \ could \ have \ gone \ to \ of fice \ hours \ whenever \ i \ need \ help. \ i \ should \ have \ asked \ more \ questions \ in \ class \ details \$
- Try harder
- I could have started assignments earlier, giving me more time to reach out for help.
- Communicated more effectively with my engineering group
- I could have spent more time on the homework assignments instead of waiting until the last minute.
- I could have taken notes but none of the material seemed like it had to have notes taken.

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Course: ENGE_1216_13948_201901: (13948) Foundations of Engineering-ENGE_1216_13955_201901

- I feel like I was very attentive in this class. If anything, I probably could have taken more notes in class.
- I could have been more proactive about starting assignments ahead of due dates.
- I could have been a better listener.
- Put more time into this course.
- nothing
- Participated more actively during lectures.

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

David Todd Gray

Response Rate 45/70 (64.29%)

- David Gray is terrific. Foundations is awful in its current state and needs a complete overhaul.
- · Really enjoyed hippobiddness and engineeringness
- · He is a good guy
- Great teacher, would have him again if I had more foundations of engineering classes. I recommended him to a friend that is coming to VT engineering next fall.
- · He's a funny teacher that makes class more interesting
- This was his second semester teaching enge 1216 so I can understand why there some mistakes with his assignments and teaching methods.
- · David is great at engaging with the students and joking around with students.
- Thank you for wanting to improve and being open to feedback. Dr. Gray has a lot of potential to really make the course great, but the department guidelines are really holding him back.
- · He was super cool and refreshing
- I think many people struggled to affectively use solidworks, so it made modeling our plane very difficult.
- · Great professor, really glad I was able to be in his class
- · Awesome job at making the class very engaging. While I wish I would have known about the expectations about going above and beyond earlier on, I really enjoyed the class
- I have enjoyed your class a lot. Whenever I had a question, it was addressed professionally and Dr. Gray tried his best to always answer honestly and quickly.
- I really appreciate how responsive you are to class feedback. The only complaints I have about this class are either the department's fault or issues that you addressed and fixed after the midtern evaluation. Good job bossman. I wouldn't change much of anything you did.
- Mustache
- He is the best professor I have had in my two semesters of college. He is so entertaining that the most boring topics became interesting. I wish I could take 1215 again just so I can have him as my professor. HIGHLY RECOMMEND!
- Dr. Gray was my most enjoyable instructor this semester, and I believe that his attitude about engineering made me appreciate the subject more.
- ENGE1216 needs to be completely rewritten. All the professors think the projects are awful and teach us nothing, and the vast majority of students would agree.
- Dr. Gray is the man. He may get a lot of flak, but that is because HE ASKS FOR IT. He truly wants to better himself as an instructor and wants his students to succeed to the best of their ability if he can help it. It takes a lot of personal determination to take criticism and the ACTUALLY make a change based on the self-inflicted criticism. Dr. Gray is an embodiment of Ut Prosim and I do not feel he gets enough credit. I respect the crap out of him for this. It is foolish for anyone not to realize the inherent, intrinsic value Dr. Gray brings to VT as a whole.
- Class was too long and drawn out for no reason. Our in class assignments were not useful or relatable to the class, Engineeringness was a waste of time and I never learned a single thing from it, and we would start the actual material for the class fifteen minutes into class after spending that entire time talking about Hippos. His teaching of MATLAB and Solidworks was close to nothing and his rubrics and grading system was incredibly unfair until we all started getting very mad at him. Also, the entire semester he was pressuring us to get the drones done as soon as possible but would never provide us the material and information to do that until last minute and then proceed to get mad about how we did not do it earlier.
- Really great teacher! Once he teaches the the course for a few semesters and fully understands it, his class will be one of the best the engineering department has to offer. He relates to the students and is blatant and honest when issues arise or when an assignment he is giving is unfair or doesn't make sense. This makes students feel respected by the teacher, which makes us much more willing to listen to him. He engages the class with fun, witty slides about hippos and student responses about classwork. He is one of the only teachers I have who makes a genuine attempt to gauge how the students feel about the class and assignments and what we think he should do to improve the class. It is obvious he cares about doing a good job as our instructor and enjoys teaching. Some of his best lessons were unrelated, but very interesting engineering topics that would probably never be taught in a non-specialized course.
- N/a
- Great teacher, highly recommend.
- n/a
- You did a really great job at keeping the course engaging and made it easier to focus on because of it.
- Still needs some help in grading fairly and following rubrics
- Grading was unclear
- The little things like talking about hippos during the beginning of classes made me want to come everyday
- N/A
- Fantastic instructor and mixed casual and relaxed demeanor with being task oriented
- I really like the fact that Dr.Gray had someone come in and take feedback from us on him.
- I enjoyed this class more than most of my other friends, Dr. Gray made this class enjoyable.
- Dr. Grav is a fantastic teacher and will greatly impact his future students.
- I wish all my teachers were more like Dr. Gray
- Dr. Gray was a blast. He made the curriculum interesting and he was always enthusiastic about the class.
- · Sick mustache!
- Grading was very tough. Even when done what was instructed, I was constantly worried about my grade.
- This course focused more on Matlab than was necessary. It would have been more beneficial to designate more time to Solidworks. The Solidworks section of this course felt a bit rushed.
- Really excellent year. Thanks for everything
- Sometimes, the things he talked about did not really pertain to the class.
- I feel like Dr. Gray genuinely cares about his job and his students. He wants to teach to best of his ability and actively seeks ways to improve in order to see his students succeed.
- Sometimes I feel like the course is biased towards specific engineering majors which can make choosing a major at the end of the year difficult because we do not know much about the other majors.
- Great guy, better mustache

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Instructor: David Todd Gray *
Response Rate: 61/70 (87.14 %)

• Really enjoyed him as a teacher, I had a good semester in engineering due to how enjoyable he made the class.

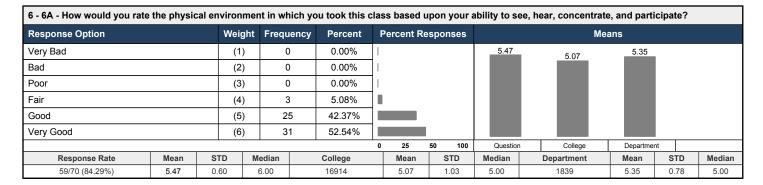
• cuper cool mustache

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Instructor: David Todd Gray *

Response Rate: 61/70 (87.14 %)



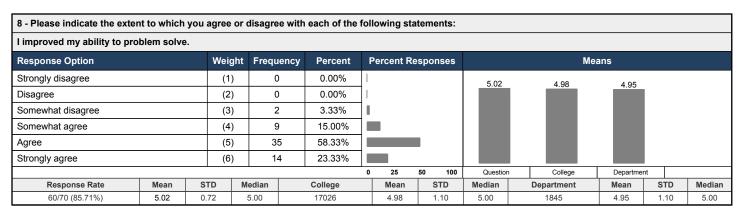
7 - 7A - Please add any comments about the physical environment here:

Response Rate 36/70 (51.43%)

- Rows of tables are not conducive to groupwork. The round tables we used last semester for ENGE 1215 in Randolph are a lot better.
- · Better than Randolph
- ΝΔ
- · Goodwin classrooms are not good for group work. Somewhat cramped space
- Very engaging and welcoming.
- I like that the room/building is more modern than other rooms/buildings
- · It was nice to have the tables with power strips
- I've really enjoyed being in your class these past two semesters. I really appreciate you keeping it real with us. It was also very nice that you did the did the feedback activity earlier in the semester. It showed that you were willing to take criticism and learn from it. It set a very good example and I appreciated it very much.
- The use of the microphone helped in hearing, but sometimes the words on the slides were too small to see what they were.
- I think its a good environment.
- He tries to have the class interact with each other and with him during lecture. Overall the classroom has a great atmosphere.
- Good
- Overall a great environment. The mic worked great and the classroom was a good environment.
- It was fine
- NA
- It was a great learning environment.
- I love Goodwin but it was not conducive to this sort of class. Having twelve different groups in the class was overwhelming, six would have been plenty for a classroom but because of it, it did not allow for that personal connection and nature to be built with the professor or the other students.
- None of us even noticed the class size doubled from 1215.
- The classroom was very nice and it was very easy to hear him talk with the mic he used.
- N/A
- · Alot of people, but not too crowded.
- Liked it
- I enjoyed the 70 student class format. Made for more in-depth conversations and a wider set of views.
- This room is so much better than the room in Randolph last semester. However, Goodwin is a hike from Lee Hall.
- Good
- One of the projectors was fluky, but other than that it was fine.
- It was fine.
- Only class with light music in the background
- The environment fostered mutual learning. Dr. Gray made the classroom a friendly environment.
- N/A
- · People sometimes talk instead of whisper and its distracting
- · A lot better than randolph
- I was in the front so it was probably easier for me to hear than people in the back tho im not sure.
- I thought the classroom layout and props allowed me to work comfortably
- The environment feels condensed at times
- · Goodwin is really nice, I enjoyed it.

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The textbook or course re	adings mad	e a valuable	contributio	n to my learning	J.						
Response Option		Weigl	nt Frequer	ncy Percent	Percent R	esponses		Me	ans		
Strongly disagree		(1)	10	16.67%							
Disagree		(2)	11	18.33%				4.39	3.96		
Somewhat disagree		(3)	8	13.33%			3.48		0.00		
Somewhat agree		(4)	11	18.33%							
Agree		(5)	11	18.33%							
Strongly agree		(6)	9	15.00%							
		•		•	0 25	50 100	Question	College	Departmen	t	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
60/70 (85.71%)	3.48	1.71	4.00	16923	4.39	1.52	5.00	1833	3.96	1.64	4.00

The objectives of the cou	rse were clea	rly explair	ed.												
Response Option		Weig	ght Fr	Frequency Percent		Percent Responses				Means					
Strongly disagree		(1))	2	3.39%	I						4.97	4.04		
Disagree		(2))	2	3.39%	ı				4.63	l	4.57	4.81		
Somewhat disagree		(3)	2	3.39%	ı									
Somewhat agree		(4)	19	32.20%										
Agree		(5)	19	32.20%										
Strongly agree		(6))	15	25.42%										
		'				0	25	50	100	Question		College	Departmen	t	
Response Rate	Mean	STD	Media	n	College		Mean		STD	Median		Department	Mean	STD	Median
59/70 (84.29%)	4.63	1.20	5.00		16993		4.97		1.17	5.00		1844	4.81	1.30	5.00

8 - Please indicate the ext	ent to which	you agree	or disagree	with each of the	tollowi	ng sta	itements:					
The out-of-class assignment	ents were ed	lucationally	valuable.									
Response Option		Weig	ht Freque	ncy Percent	Percent Percent Response				Me	ans		
Strongly disagree		(1)	1	1.69%	1				4.95			
Disagree		(2)	3	5.08%				4.59	4.33	4.70	l	
Somewhat disagree		(3)	2	3.39%	ı							
Somewhat agree		(4)	17	28.81%								
Agree		(5)	26	44.07%								
Strongly agree		(6)	10	16.95%								
					0	25	50 100	Question	n College	Departme	nt	
Response Rate	Mean	STD	Median	College	M	lean	STD	Median	Department	Mean	STD	Mediar
59/70 (84.29%)	4.59	1.08	5.00	16908	4	4.95	1.22	5.00	1829	4.70	1.30	5.00

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