

Course Evaluation - Spring 2020
General Course Information



Course Evaluation: Discrete Mathematics

Course Instructor	Waqar Saleem
Program	CS
Course Code	CS- 113
Type	Lecture
Section	L4
Class Size	28
Response Rate (%)	75%
Most Expected Grade	A Grade
Course Rating	4.0
Instructor Rating	4.7
Course Rating of Program	3.9
Instructor Rating of Program	4.2
Course Rating of School	4.0
Instructor Rating of School	4.3

The average number of hours per week I spent on this course	Less than 1 Hour	1-3 Hours	4-6 Hours	7-9 Hours	10 or More Hours
	0.0%	20.0%	60.0%	6.7%	13.3%

What mode of course delivery would be preferable to you?	Online	Face to face	Mix or blended
	57.1%	14.3%	28.6%

Would you recommend the course to your peers?	Yes	No
	86.7%	13.3%

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Course Evaluation Report (Tables)

1. Given the unusual circumstances and a sudden switch in mode of teaching, how would you rate the following aspects of course structure, remote teaching and logistics arrangements:

Sr. No	Aspect of Course	Ratings		
		High	Adequate	Needs Improvement
	Technology			
1.	Technology platform used for course delivery (Microsoft Teams)	81.3%	18.8%	0.0%
2.	Level of ongoing support provided to you for using MS Teams by the institution	62.5%	37.5%	0.0%
3.	Expectation of the instructor for using specific design and other software/ tool during remote learning phase	68.8%	31.3%	0.0%
4.	Overall time spent on computer for attending all courses and working on assignments	62.5%	31.3%	6.3%
	Communication			
5.	Initial communication about online sessions, assignments, timelines, etc.	62.5%	37.5%	0.0%
6.	Ongoing communication about changes in courses, assessments, grading policy etc.	66.7%	26.7%	6.7%
	Teaching & Learning Process			
7.	Duration of online sessions	53.3%	40.0%	6.7%
8.	Regularity of the sessions	86.7%	13.3%	0.0%
9.	Student active participation in online sessions	80.0%	20.0%	0.0%
10.	Adjustments made by the instructor in the course content and assessment after its online transition	40.0%	53.3%	6.7%
11.	Availability of recorded lessons	73.3%	26.7%	0.0%
12.	Teaching methods used by the faculty in online learning phase	71.4%	28.6%	0.0%
	Assessment and Feedback			
13.	Number of assignments given/ assessments taken during remote teaching (March-April, 2020)	46.7%	46.7%	6.7%
14.	Suitability of assignments/ assessment to remote teaching	46.7%	46.7%	6.7%
15.	Frequency of feedback received	46.7%	46.7%	6.7%
16.	Suitability of time/ juncture at which the feedback was received (in relation to course progression)	33.3%	60.0%	6.7%
17.	Quality of feedback received	46.7%	46.7%	6.7%
	Office Hours			
18.	Availability of faculty for online Office hours	73.3%	26.7%	0.0%
19.	Extent to which office hours were utilized	33.3%	60.0%	6.7%
20.	Usefulness of office hours	53.3%	40.0%	6.7%

2. How often following teaching/ learning strategies were used during the remote learning phase?

Sr. No	Strategy	Ratings			
		Always	Most of the time	Sometimes	Never
1.	Verbal lecture /explanation	73.3%	26.7%	0.0%	0.0%
2.	Use of power point presentation to support lectures/explanation	86.7%	13.3%	0.0%	0.0%
3.	Whole class discussion	73.3%	6.7%	13.3%	6.7%
4.	Questioning	73.3%	26.7%	0.0%	0.0%
5.	Student presentation	13.3%	13.3%	26.7%	46.7%
6.	Use of discussion boards	20.0%	26.7%	13.3%	40.0%
7.	Use of multimedia (video clips, animations, photos, etc.)	20.0%	13.3%	53.3%	13.3%
8.	Demonstrations by the faculty	46.7%	40.0%	13.3%	0.0%
9.	Others	33.3%	50.0%	0.0%	16.7%

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Course Evaluation Report (Comments)

1. Comment on course structure, remote teaching and logistical arrangements

- The instructor did his best to ensure we could cope with the shift and to accommodate such a large class.
- No problems faced. Only the screen time was increased a lot because of continuous online sessions and then the assignments.
- Online learning experience was good and fun

2. What was your understanding of the course objectives? Were those objectives achieved during the semester? Were the objectives compromised in any way due to remote learning? Please elaborate with

- The objective of the course was to help us think and solve problems logically and I think we were able to achieve this object. since we used a lot of real life examples.
- Yes, they were achieved even during the online classes
- We studied logic, which is very essential in the field of Computer Science. I learned how to prove mathematical statements and to solve problems related to logic. The use of Latex was interesting and it was fun doing homework on it.
- I expected to learn Discrete Math, and I did. This was not impeded by online learning.
- I think it was achieved.
- Yes, to a certain extent the course outlines that we had set for this online learning period were met to fullness.
- Yes, I think learning objectives were met for e.g. proving techniques
- The objective of course was to improve logical thinking. The course objectives were covered.

3. Do you want to share any other feedback on engagement and participation levels in the course?

- Maybe more discussions, they helped engage more.
- No! nothing was compromised
- Participation level was much high and appreciable.
- We started going too fast

4. Describe three major challenges you faced during remote learning phase

- To be able to attend the lectures on time due to internet issues. I personally missed out on a lot of online lectures due to unavailability of internet during that time slot, so having to go back and watch the recorded lectures was also very time consuming. Moreover, I felt like the homework were also very mentally stressful to do.
- Connectivity issues
- 1. I had a lot of difficulty in giving quizzes online.
- 2. At first, it was really difficult to do homework on latex as I was unfamiliar with the signs. when I got used to it, I really enjoyed doing homework on it.
- 3. I found really difficult to prove mathematical statements.
- Assignments were a bit of a challenge along with other courses.
Screen time was a big problem because I had to be in front of the screen almost the whole day
- Suitable study space Family Active support for homework help.
- Internet Privacy Assignments
- Internet issues Meeting deadlines Balancing between the university and other activities

5. List your suggestions to improve remote learning experience in future

- Assignments shouldn't be as many.
- Quizzes should not be taken online. They should be handwritten.
- I don't think there is any improvement or anything that the faculty can do about the course since it already is dependent on computer.
- Slow the teaching process since we are new to online learning
- Give fewer assessments
- Have shorter classes
Have fewer assignments to make sure not every course has its deadlines together
More one-to-one interactions and meetings with instructors should be made mandatory

6. Reasons for preferable mode of course delivery

- More easier to communicate, and more convenient (no internet issues)
- Online classes can be recorded and even for some reason, if we miss them then we can listen to the recordings.
- The course works well in both mediums so a combination might be good.
- Online course delivery gives me the flexibility of going online and implores additional texts while in the class which improves my performance as well as knowledge on the subject.
- I think for this course, online will be better since only the classroom differs.
- A lot of peers i've talked to share the same feelings along with me to a certain extent.
- Online, classes were more interesting and students were participating more
- Even at university we use digital ways of explanation so it is better to do that from home
- It was tough in quarantine

7. Please give reasons for your selected course rating

- I didn't like this course
- Develop logical thinking skills even in everyday life
- It was a really interesting course. I enjoyed learning about logic, proving mathematical statements, which are very essential for my major.
- Its an important course but also requires a lot of engagement
- Internet issues plagued the instructors' end, however he made us study enough on our end and used the facilities available to his best to keep us involved in learning the course and eventually liking it. Like Thanos said, "Perfectly balanced as all things should be".
- It's a very well organized course.
- I think it is a very interesting and unique course. By far the most interesting one.
- It is very different from what we are accustomed to when it comes to university courses and it starts to get so when other courses too reach one of their more confusing bits during the semester. This makes following the course with its fast pace quite difficult
- Mathematical logic is very interesting to study
- Instructor was good. Also, the course outcomes and objectives were such that they can even help students not only in computer science but also in their lives, promoting rationality
- Some concepts never made sense to me
- The problem with these courses is that their assignments are extensive but weigh very less

- Demanding course and sometimes it gets difficult to balance between this course and the rest

8. Please give reasons for your selected instructor rating

- Very understanding instructor, he also taught the course very well and he kept us engaged as well, it made us love the course even more.
- He grades harshly
- He is co-operative and a good teacher
- The instructor's way of teaching was good. He didn't use the board in the whole course, he taught us by using slides. At first, it was difficult by learning from the slides but later I found it easier.
- The instructor accommodated us however he could. He always helped when we had questions and was flexible when he could be. He was prepared for his lessons and always maintained timeliness.
- But this puts a smile on my face (ଓ_ଓ). Well, the assignments were long and tedious, though engaging.
- I think he understands the needs of a student and teaches accordingly.
- Sir Waqar is very lively during classes(including online ones) and is always very receptive questions and amazing with explaining them.
- He is very good at getting you to figure things out for yourself
- Instructions utilized such techniques which keep students attentive and interested throughout the lecture, along with cooperating with the students
- He was really good but during online classes, he went faster to complete the course
- He is a really good teacher
- Very approachable and always addresses questions in class