Predicting satisfaction among the students on e-learning under the pandemic situation

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Introduction

- This survey is conducted online targeting undergraduate students of Sri Lanka.
- The questionnaire is distributed among the undergraduate university students through google form.
- Total 71 responses were collected.

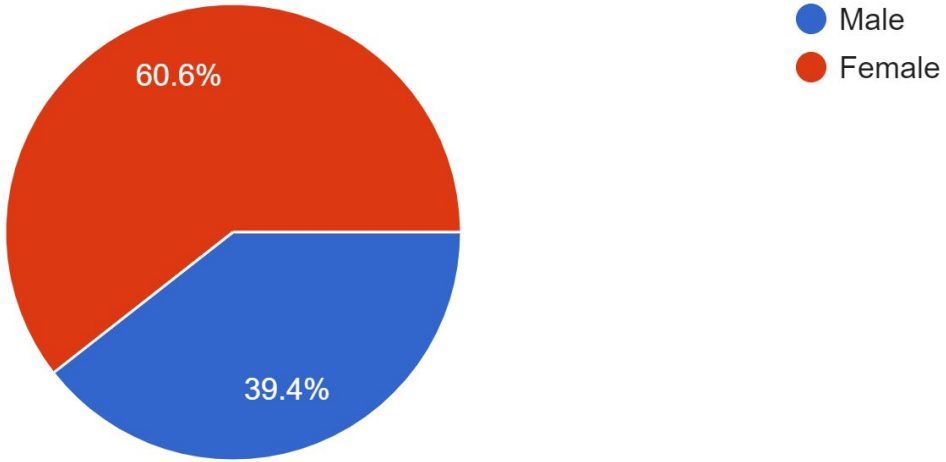
Data

Used an online questionnaire to gather data including

- Multiple choice answer
- Multiple choice grids
- Drop downs
- Checkboxes
- Linear scales

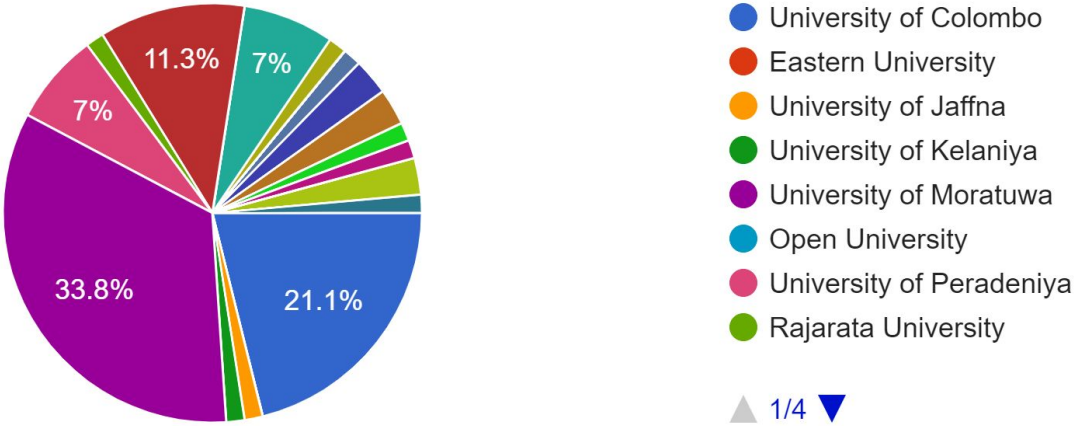
What is your gender?

71 responses



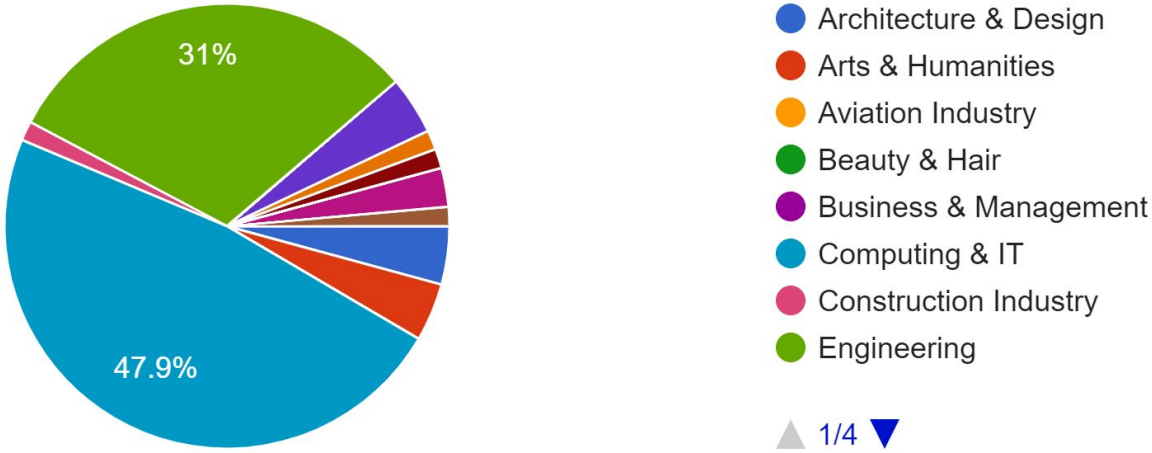
What is your university?

71 responses



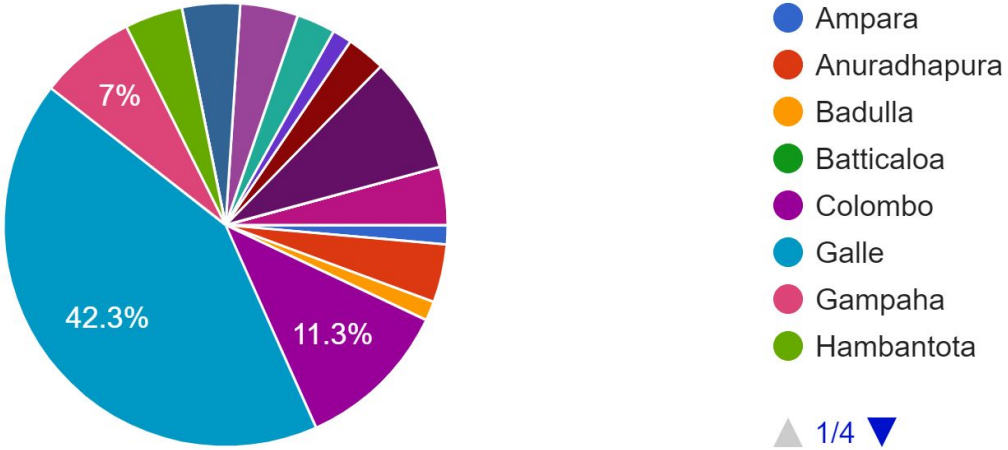
What is your field of specialization?

71 responses

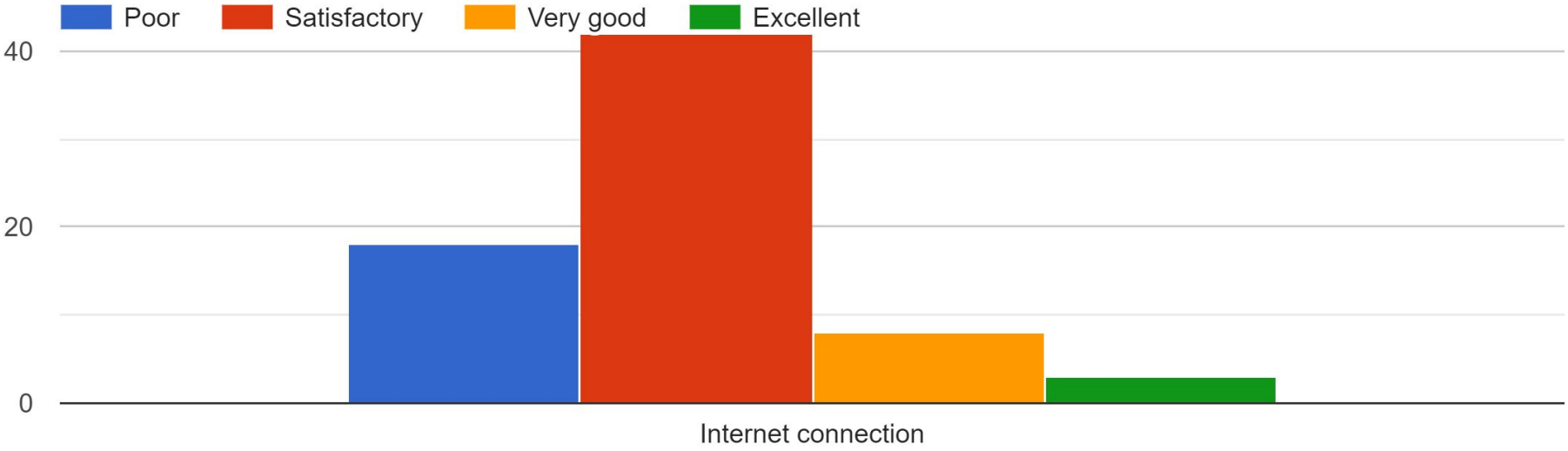


Where do you live?

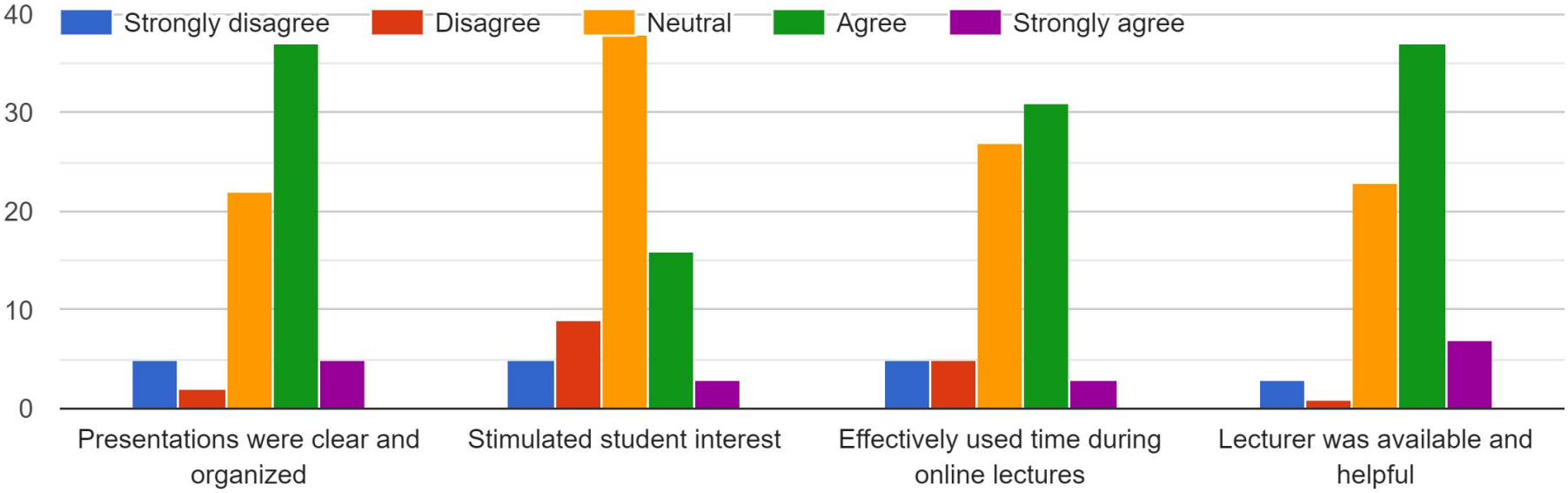
71 responses



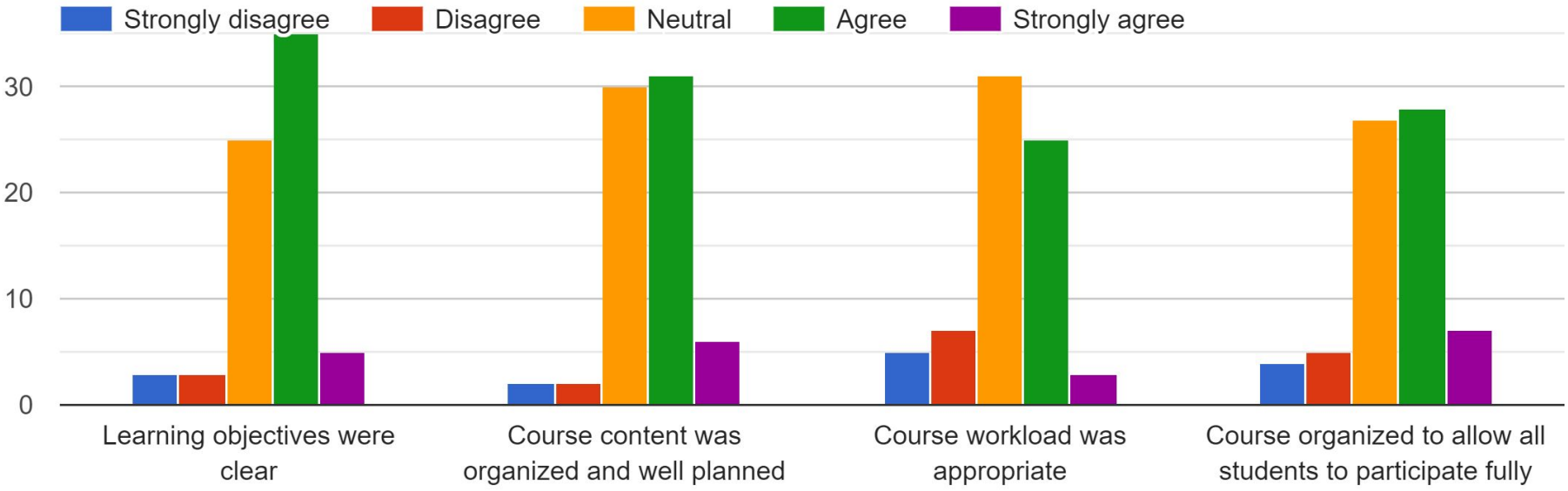
How about the internet connection?



Lecturers' details in online sessions

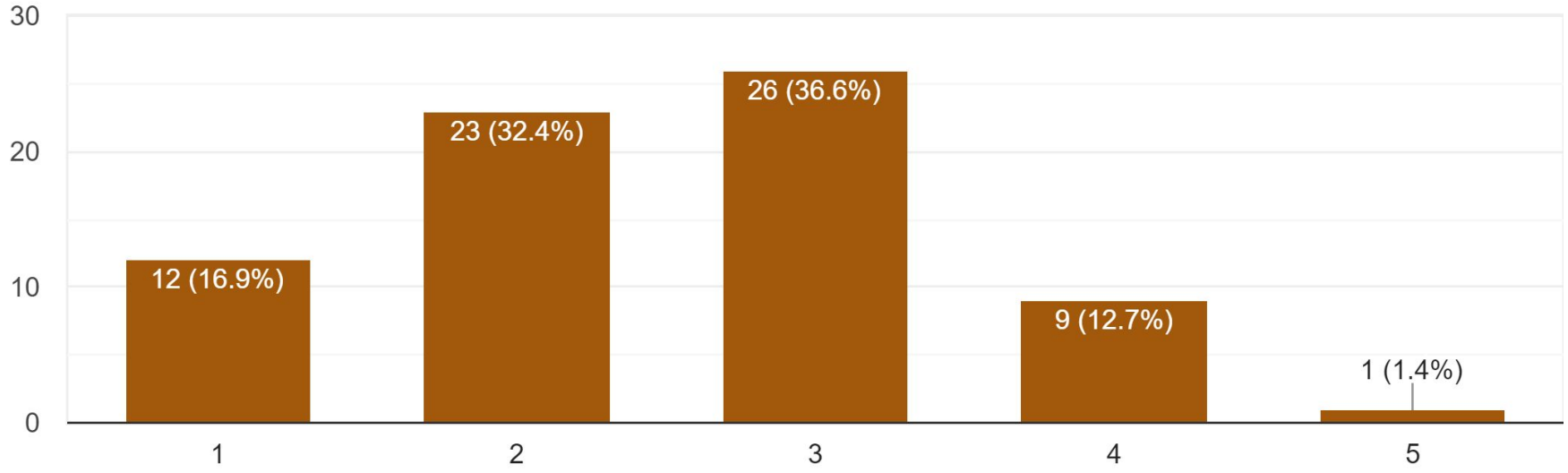


Course content in online sessions



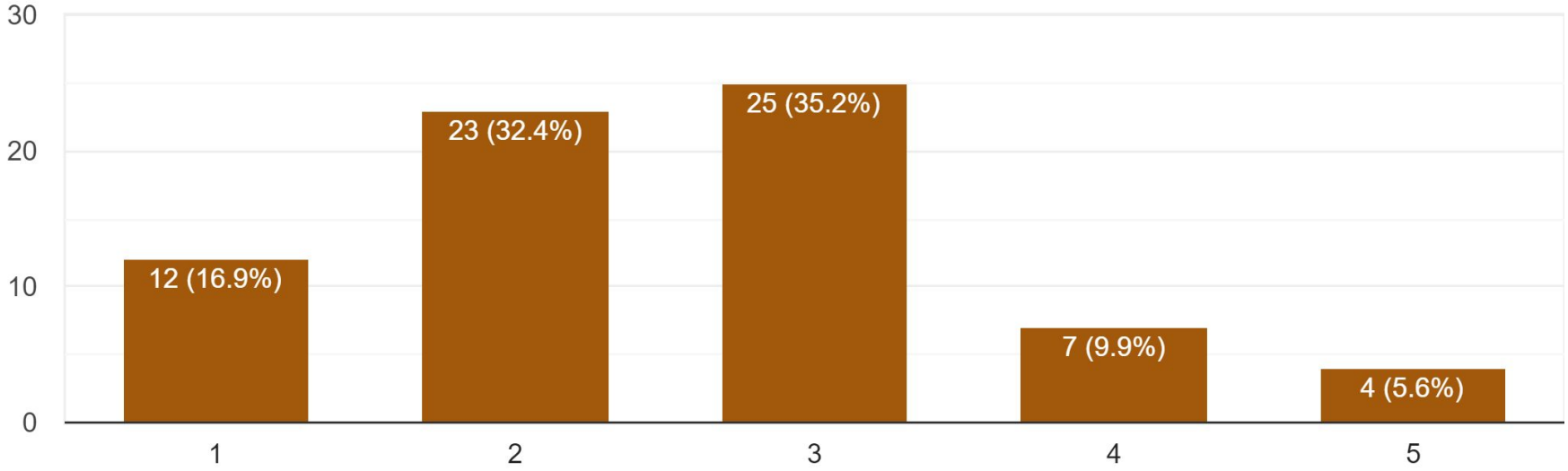
Level of satisfaction regarding engagement with extra curricular activities during e-learning process (Eg : Gavel Club, AIESEC, Chess etc)?

71 responses



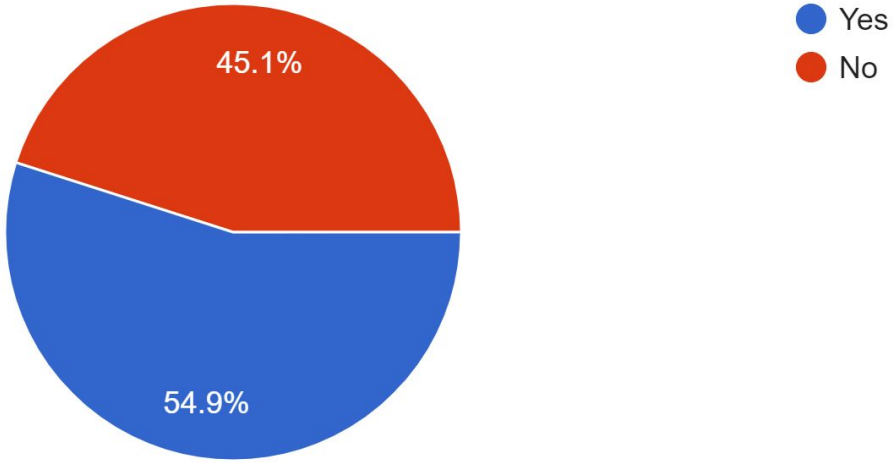
Level of satisfaction regarding interaction with batch mates during e-learning

71 responses



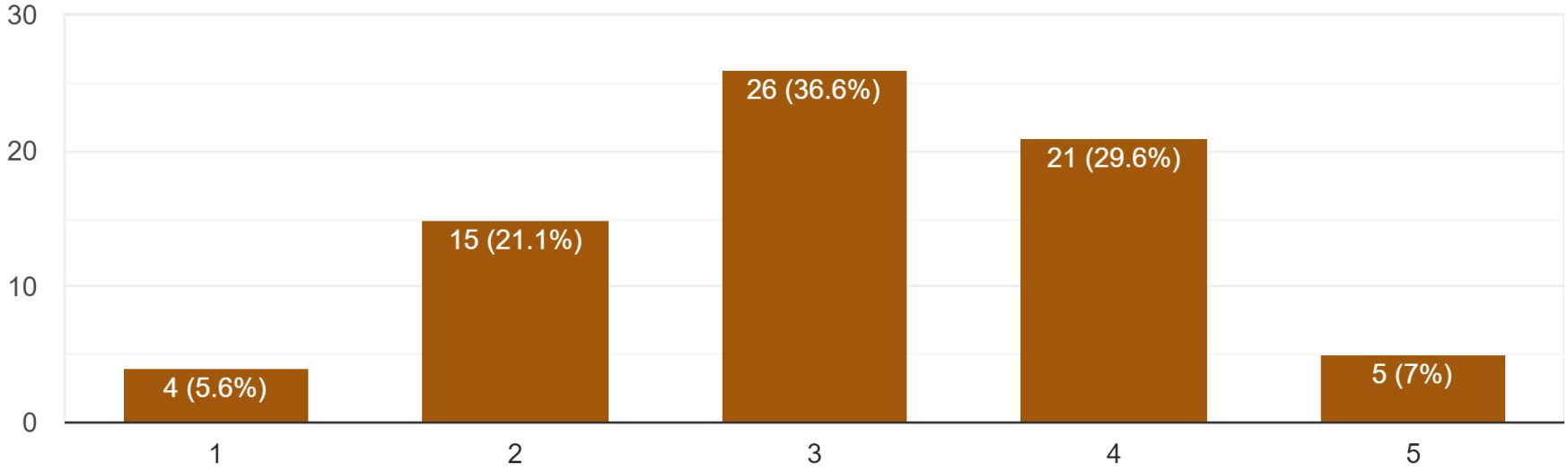
Do you get enough time for the completion of online exams/assignments?

71 responses



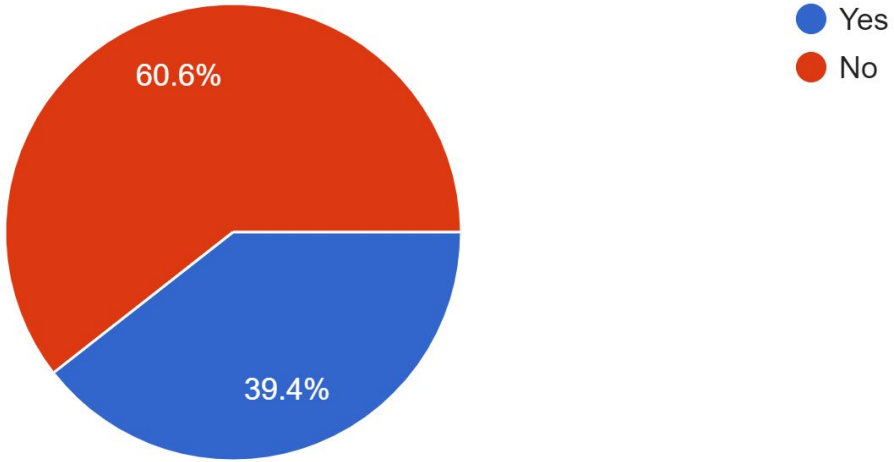
In overall how satisfied are you with the e-learning platform?

71 responses



Do you prefer e-learning over traditional learning methods(being at university)?

71 responses



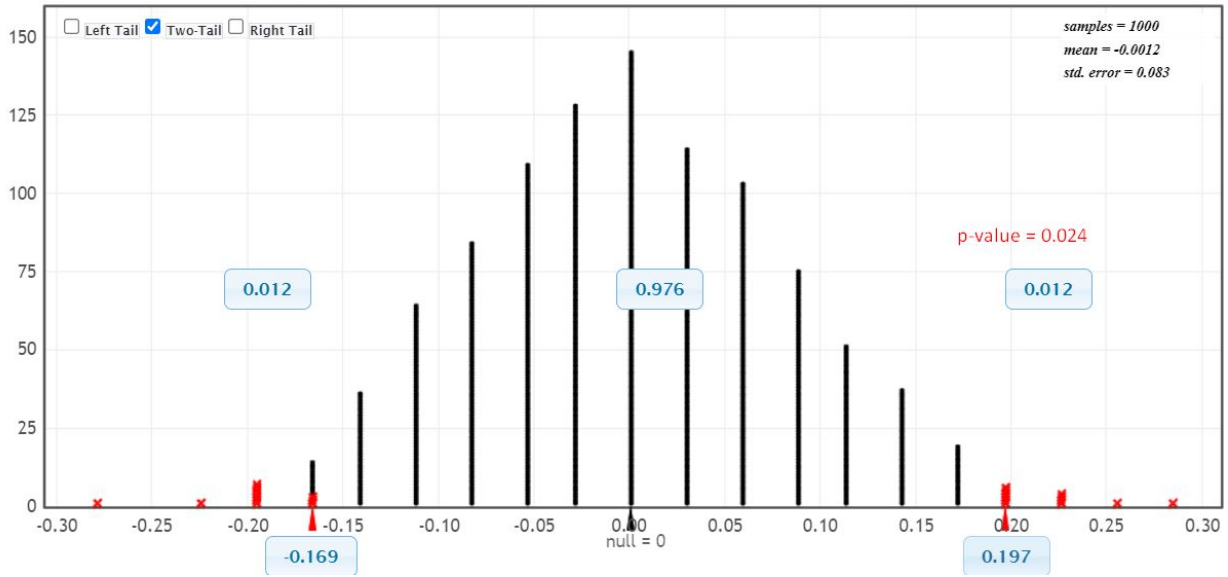
Hypothesis Testing

Does satisfaction towards e-learning does not caused by students satisfaction of the given time for online exams and assignments?

- p_e : *propotion of student* satisfaction towards e-learning = 0.352
- p_o : *propotion of student* satisfaction towards the given time for online exams and assignment = 0.549
- $H_0 : p_e = p_o$
- $H_e : p_e \neq p_o$
- $p_e - p_o = -0.197$

Hypothesis Testing

Randomization Dotplot of $\hat{p}_1 - \hat{p}_2$ Null Hypothesis: $p_1 = p_2$



Original Sample

Group	Count	Sample Size	Proportion
Group 1	25	71	0.352
Group 2	39	71	0.549
Group 1-Group 2	-14	n/a	-0.197

Randomization Sample

Group	Count	Sample Size	Proportion
Group 1	39	71	0.549
Group 2	25	71	0.352
Group 1-Group 2	14	n/a	0.197

Conclusion

- P - value is smaller than 0.05 significant level.
- Therefore we can reject H_0
- Hence satisfaction towards e-learning does not caused by students satisfaction of the given time for online exams and assignment.

Thank you