# Predicting Satisfaction Among the Students on E-learning Under the Pandemic Situation

#### Introduction

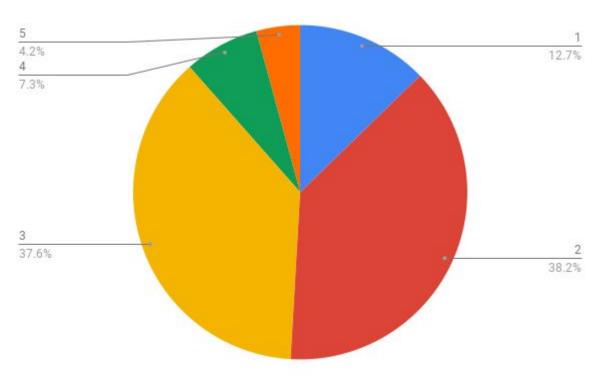
- This anonymous survey is conducted online, targeting undergraduate students of government universities in Sri Lanka who have been receiving online education during the pandemic.
- The questionnaire was distributed among students using a Google form.
- There were different question types on different aspects
  - multiple-choice questions
  - Dropdowns
  - Linear scale
- 165 total responses were received.

#### **Aspects of the Questions**

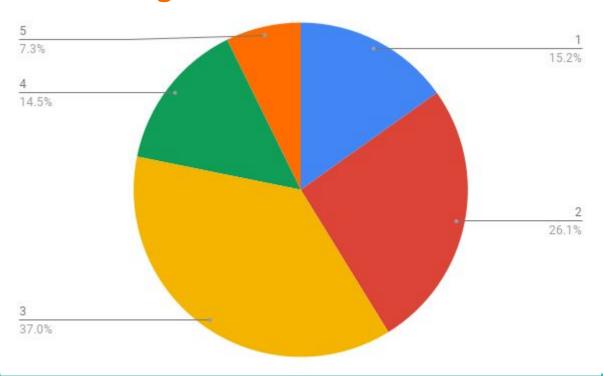
- Gender
- Living status (Hometown, Income)
- Accessibility to devices
- University, course and academic year
- Internet Service Provider and connection
- Time spent on e-learning
- Interactions during lectures
- Quality of teaching and exam conduction
- Extracurricular activities and engagement with batchmates

Level of Student Engagement with Extracurricular

**Activities** 



# Level of Student Favouration for E-learning over In-premises Learning

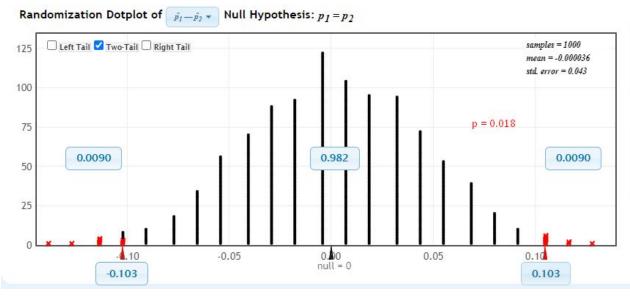


### **Hypothesis Testing**

Does dissatisfaction towards e-learning not cause by students' levels of engagement in extracurricular activities that the university conducts?

- p<sub>a</sub> proportion of students engaged in extracurricular activities to a unsatisfactory level = 0.885
- $p_e$  proportion of students dissatisfied with e-learning over in-premises learning = 0.782
- $\bullet \quad H_0: p_a = p_e$
- $H_a: p_a \neq p_e$
- $p_a p_e = 0.103$

### **Hypothesis Testing**



#### Original Sample

Group	Count	Sample Size	Proportion
Group 1	146	165	0.885
Group 2	129	165	0.782
Group 1-Group 2	17	n/a	0.103

#### Randomization Sample

Group	Count	Sample Size	Proportion
Group 1	143	165	0.867
Group 2	132	165	0.800
Group 1-Group 2	11	n/a	0.067

#### **Conclusion**

- p value = 0.018, which is less than 0.05 significance level
- Therefore, we can reject the null hypothesis
- Hence, dissatisfaction towards e-learning not cause by students levels of engagement in extracurricular activities that the university conducts
- This survey was filled by students from only few universities in Sri Lanka.
  Therefore, there might be a volunteer bias.

## **Thank You**