How technological literacy influences the academic performance of undergraduate students in the Department of Statistics, University of Colombo.

We are 3rd year undergraduates of Department of Statistics, University of Colombo. Your participation in this survey will greatly contribute to our study on how technological literacy influences the academic performance of undergraduate students in the Department of Statistics, University of Colombo. Your responses will be instrumental in understanding the levels of technological literacy among students, how technology is utilized in academic activities, and its impact on academic performance & time management. This survey consists of several sections aiming to gather comprehensive insights into your experiences with technology and its effects on your academic journey. Please answer each question thoughtfully and honestly; your input is invaluable to our research.

Your participation is voluntary, and all responses will be anonymized and kept strictly confidential. Your individual data will not be disclosed; it will be used solely for research purposes.

Thank you for taking the time to complete this survey. Your contribution will aid in enhancing the academic environment for future students.

* Indicates required question

1. What is your current academic year at the University of Colombo? *

   Mark only one oval.

   - ◯ 3rd Year
   - ◯ 4th Year

2. What's your specialization? *

Mark only one oval.

- ◯ Applied statistics
- ◯ Industrial Statistics
- ◯ Data Science or Stat with CS
- ◯ Statistics

3. What is your gender *

Mark only one oval.

- ◯ Male
- ◯ Female

4. What is your current GPA? *

_____

Technological literacy

5. Which statistical software have you used in your coursework? (Select all that apply) *

Tick all that apply.

- ☐ R
- ☐ Python (with libraries like Pandas, NumPy, etc.)
- ☐ SPSS
- ☐ Minitab
- ☐ Excel (for statistical analysis)
- ☐ PowerBI
- ☐ Tabulae
- ☐ Other: _____

6. On a scale of 1-5 rate your proficiency in the following statistical software you've used (1 being novice, 5 being expert) *

Mark only one oval per row.

	1	2	3	4	5
R / Python	◯	◯	◯	◯	◯
SPSS / Minitab	◯	◯	◯	◯	◯
Excel	◯	◯	◯	◯	◯
PowerBI / Tabulae	◯	◯	◯	◯	◯

7. Rate your usage in the following statistical software for academic purposes *

Mark only one oval per row.

	Never	Rarely	Occasionally	Frequently	Very frequently
R / Python	◯	◯	◯	◯	◯
SPSS / Minitab	◯	◯	◯	◯	◯
Excel	◯	◯	◯	◯	◯
PowerBI / Tabulae	◯	◯	◯	◯	◯

8. Select the domains in which you have applied each software *

Tick all that apply.

	Data cleaning and preprocessing	Data analysis	Data visualization
R	☐	☐	☐
Python	☐	☐	☐
SPSS	☐	☐	☐
Minitab	☐	☐	☐

9. On a scale of 1-5 rate your proficiency in the following areas (1 being novice, 5 being expert) *

Mark only one oval per row.

	1	2	3	4	5
Operating video conferences (Zoom / MS Teams)	◯	◯	◯	◯	◯
Presentation tools (MS Powerpoint)	◯	◯	◯	◯	◯
Documentation tools (Word/ LaTex Editors like Overleaf)	◯	◯	◯	◯	◯
Google apps (Chrome / Drive / Classroom)	◯	◯	◯	◯	◯

10. Rate your usage in the following areas for academic purposes *

Mark only one oval per row.

	Never	Rarely	Occasionally	Frequently	Very Frequently
Operating video conferencing (Zoom / MS Teams)	◯	◯	◯	◯	◯
Presentation tools (MS Powerpoint)	◯	◯	◯	◯	◯
Documentation tools (Word/ LaTex Editors like Overleaf)	◯	◯	◯	◯	◯
Google apps (Chrome / Drive / Classroom)	◯	◯	◯	◯	◯

11. Have you faced challenges in courses due to inadequate technological skills (analytical, coding, etc.)? *

Mark only one oval.

◯ Yes

◯ No

12. If yes, specify the reason

_____

13. What are the methods you used to enhance your technological skills? (If there's any) *

_____

Academic Performance and Technology

14. How often do you use laptops/ tablets etc. for academic purposes? (Approximately in hours per week) *

_____

15. Do you believe that technological proficiency significantly impacts academic performance in statistics-related courses? *

Mark only one oval.

- ◯ Yes
- ◯ No
- ◯ Maybe

16. Have you experienced instances where a lack of technological skills hindered your understanding or performance in statistics courses? *

Mark only one oval.

- ◯ Frequently
- ◯ Occasionally
- ◯ No idea
- ◯ Rarely
- ◯ Never

17. Apart from the technological tools that are already in your curriculum, are there any other tools you would like to be added to the curriculum to enhance the overall learning and academic performance? *

_____

Time Management

18. Has the use of technology positively or negatively influenced your time management skills in relation to academic tasks? *

Mark only one oval.

- ◯ Positively
- ◯ No significant impact
- ◯ Negatively

19. Elaborate the reasons behind this influence briefly *

_____

Additional Feedback

20. Is there anything else you'd like to share regarding the connection between technological literacy and academic performance in statistics?

_____

Thank you!

We value your response in conducting our survey.

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