The University of Papua New Guinea
Open College

Evaluating Lecturers' and Learners' Perceptions and Experiences towards Technology-Enabled Learning (TEL) at The University of Papua New Guinea

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1. INTRODUCTION

❑ **Technology-Enabled Learning (TEL) :**

❖ **eLearning and online learning**

❖ **Use of various technology tools to enhance learning**

❖ **use of technology, platforms, systems and digital content to extend and enhance student-centred learning.**

❖ **TEL introduced in 2018 (Kirkwood & Price, 2021)**

❖ **LMS e.g. Moodle 2016 (COL)**

❑ **Key Features**

❖ **Online Courses and Modules**

❖ **Digital Content**

❖ **Virtual Classrooms**

❖ **Self-paced Learning**

❖ **Adaptive Learning**

❖ **Assessment and Feedback**

❖ **Collaborative Learning**

❖ **Access to Resources**

❖ **Flexibility**

❖ **Engagement**

2. TEL SIGNIFICANCE

❖ **Enhanced Access and Flexibility-**

• 24/7 access to educational resources.

• Flexible online platforms cater to varied schedules and preferences.

• Remote access ensures both on-campus and distance learners can engage effectively

❖ **Engaging** and Interactive Learning

• Multimedia tools simplify complex concepts through presentations, simulations, virtual labs; online forums, collaboration promote active learning

❖ **Efficient Assessment and Progress Tracking**

• Tech assessments (online quizzes, assignments) speed grading, offer quick feedback; LMS monitors progress, customizes teaching; data analytics refine strategies for better UPNG learning.

2.RESEARCH QUESTIONS

❖ **What are the learners' perceptions and attitudes towards TEL at UPNG?**

❖ **How do lecturers' experience using TEL and how does it impact their teaching?**

3.OBJECTIVES

❖To examine the impact of technology on students and lecturers engagement, motivation, and learning outcomes.

❖To explore the readiness of students and academic staff to adopt and integrate technology into their teaching and learning practices.

4. METHODOLOGY AND RESEARCH INSTRUMENTS

❖ **Mix-Methods -Qualitative and Quantitative methods**
❖ **Two distinct questionnaires for learners and lecturers**
❖ **Disseminated through Monkey Survey for those who have internet access**
❖ **Hard copies for those without internet access**
❖ **Data Analysis –MS Excel for analysis and chart creation, while SPSS was used to conduct normality and correlation tests.**

❖ **Data Sample**
❖ **73 learners**
❖ **56 lecturers**

5.RESULTS: KEY AREAS

- **Accessibility to and Availability of Technology**
  - ❖ Infrastructure
  - ❖ Device Accessibility
- **Use of Technology**
  - ❖ Virtual Classrooms
  - ❖ Learning Management System (LMS)
  - ❖ Open Educational Resources (OER)
  - ❖ Professional Development
  - ❖ Interactive Discussions
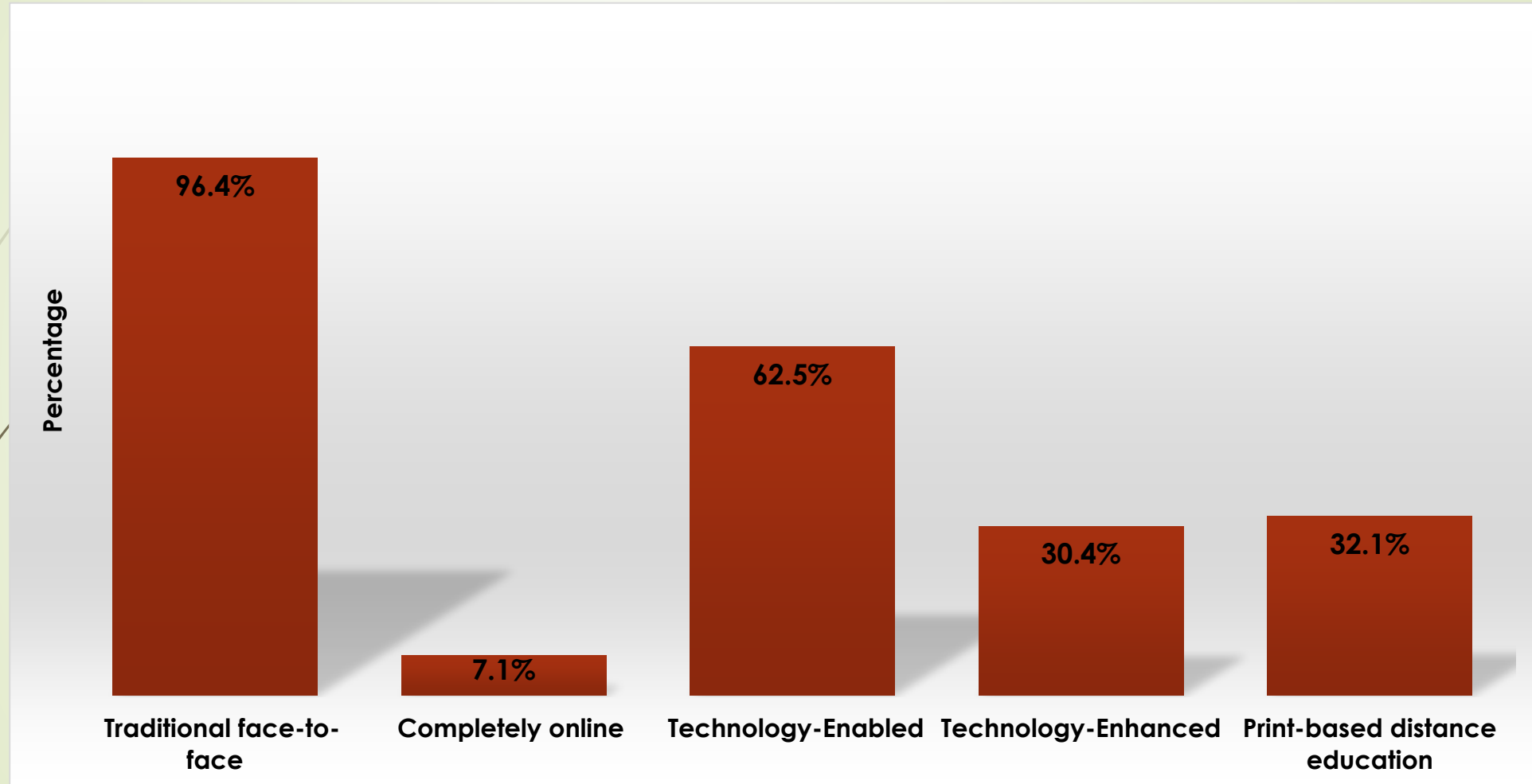 - ❖ Digital Libraries

5.1 RESULTS : LECTURERS

Figure 4.Teaching Modes

5.2 LECTURERS' COMPUTER SKILL LEVELS

❖ **Software Proficiency Level :**

- ▪ **Majority of respondents have User-level proficiency in various software tools Standard Deviation of 10.4.**

- ▪ **Some areas show limited Expertise, particularly Digital audio and Learning Management System.**

❖ **Advanced Skills Level:**

- ▪ **A portion of respondents demonstrate Advanced skills in tools like Spreadsheets, Presentation, and Graphic editing.**

❖ **Varied Presentation Skills Level:**

- ▪ **Presentation skills show a mix of Expertise, User, and some Advanced levels.**

❖ **Limited Web Design Expertise Level:**

- ▪ **Web page design skills mainly reside at the User level, with varying levels of expertise.**

5.3 LECTURERS' PERCEPTIONS

❖ Positive perceptions about Technology-Enhanced Learning (TEL) and its benefits among academic staff.

❖ TEL addresses educational challenges and provides new avenues for teaching, thereby enhancing efficiency.

❖ TEL recognized for time-saving, widened education access, and promotion of collaborative learning.

❖ TEL's role in engaging learners and enhancing teaching quality through multimedia integration.

❖ Acknowledgment of TEL's potential to elevate education quality and improve student learning.

❖ Strong consensus (71.4% to 73.2%) on adopting TEL at UPNG, highlighting its significance in the curriculum and advantages for students

6.1 RESULTS : LEARNERS

Table 1. Learners Perception about Use of TEL at UPNG

Perceptions	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree	Mean	Standard Deviation
	N=73						
It will help me get better results in my subjects.	62 84.9%	8 11.0%	2 2.7%	1 1.4%	0 0.0%	14.6	26.7
It will help me understand the subject material more deeply.	59 80.8%	5 6.8%	7 9.6%	1 1.4%	1 1.4%	14.6	25.0
It makes completing work in my subjects more convenient.	61 83.6%	7 9.6%	2 2.7%	2 2.7%	1 1.4%	14.6	26.0
It motivates me to explore many topics I may not have seen before.	68 93.2%	5 6.8%	0 0.0%	0 0.0%	0 0.0%	14.6	29.9
It allows me to collaborate with others easily, both on and outside of the campus.	67 91.8%	6 8.2%	0 0.0%	0 0.0%	0 0.0%	14.6	29.4
It will improve my IT/information management skills in general.	70 95.9%	3 4.1%	0 0.0%	0 0.0%	0 0.0%	14.6	31.0
It will improve my career or employment prospects in the long term.	71 97.3%	2 2.7%	0 0.0%	0 0.0%	0 0.0%	14.6	31.5
Overall Mean 14.6							

6.2 LEARNERS PERCEPTIONS

❖ **Predominantly positive (85% find TEL beneficial)**

❖ **Flexible methods (online platforms, mobile learning, video conferencing)**

❖ **Convenient access to course materials and interactions**

❖ **Improves digital literacy and tech familiarity**

7.CONCLUSION

❖Implementation of TEL at UPNG:

- **Potential for pedagogic transformation**

- **Leverages technology for innovative content delivery**

- **Utilizes online learning management systems, multimedia tools, social media, mobile devices**

❖Benefits of TEL:

- **Flexible and accessible learning environment**

❖Key to successful TEL integration:

- **Proper planning, training, and support**

❖Ongoing evaluation and feedback mechanisms:

- **Monitor TEL effectiveness**

- **Make continuous improvements**

8.RECOMMENDATIONS

I. Develop appropriate ICT Policy

II. Enhance ICT Infrastructure

III. Strengthen Capacity Building

IV. Implement Comprehensive TEL Training for Students

V. Foster Partnerships with leading ICT Companies

THANK YOU !