Learning Styles and the Use of ICT in University Students within a Competency-Based Training Model


**1. INTRODUCTION**

**ITC**

Learning Styles (LSs) are present in people's everyday life, personal variables between intelligence and personality, expressed in the different ways to approach, plan and respond to learning demands.

**OBJECTIVES**

1. Determining the differences between LSs and the use of ITCs in students with a competency-based training.
2. Identifying differences related to ITC use frequency between genders.

**2. METHODOLOGY**

Quantitative approach of a descriptive and correlational nature.

Colombian private university.

LS measurement:

Honey and Alonso Questionnaire (CHAEA) 80 Statements:

- 20 Active
- 20 Reflexive
- 20 Theoretical

ITC measurement:

10-ITEM QUESTIONNAIRE (5-point Likert-type):

- Information technologies (ITs)
- Communication technologies (CTS)

Data analysis:

- SPSS v.22 +
- T-Student +
- ANOVA

**3. RESULTS**

**LSs**

- 33.6% Reflexive
- 23.0% Pragmatic
- 27.4% Theoretical
- 15.9% Active

**TOOLS**

- **ITs**
  - 4.82 word processor
  - 4.65 spreadsheet
  - 4.37 access to digital sources
  - 1.71 statistical packages

- **CTs**
  - 4.94 chat
  - 4.92 e-mail
  - 2.99 blog
  - 2.99 wiki

**USO TIC SEGUIDO DE GÉNERO**

- **ITs**
  - Females: 31.0
  - Males: 29.4

- **CTs**
  - Females: 38.6
  - Males: 35.7

**VARIANCE ANALYSIS**

- Academic programs:
  - Non-significant
- Frequency of use of ITs and LSs:
  - Non-significant

**DESCRIPTIVE ANALYSIS**

- Use of ITs:
  - Active (30.5)
  - Theoretical (30.4)
- Use of CTs:
  - Theoretical (37.9)

**4. DISCUSSION AND CONCLUSIONS**

**OBJECTIVE 1**

Determining the differences between LSs and the use of ITCs in students with a competency-based training.

Reflexive and theoretical styles are the predominant LSs in competency-based models; students have a tendency to analyze, reflect and structure in a logical way, aiming at a kind of knowledge based on systematic and planned observation.

**OBJECTIVE 2**

Identifying differences related to ITC use frequency between genders.

They use ITCs to a greater extent.

They use ITCs to a lesser extent.

**FUTURE STUDIES**

They will be able to better clarify the relationship between LS and ITC use, in addition to generating a larger number of inferential analyses.