
Analysis of the use of Google Classroom, in the students of System Engineering of the Instituto Tecnológico de Mexicali

Dr. Jesus Francisco Gutierrez Ocampo

M.C. Jose Antonio Camaño Quevedo

M.C. Corina Araceli Ortiz Perez

Berenice Yanet Muñiz Castillo

Instituto Tecnológico de Mexicali, Mexicali, B.C. 21376, Mex

Abstract.

Google Classroom is a new tool that allows the student to work online with various file formats such as MP3 audios, Videos, Photos, images, PDF files, which are intended to be a valuable tool in the teaching process. The objective of this quantitative research is to measure the impact on the users of the systems engineering career of the Instituto Tecnológico de Mexicali with 402 students enrolled and to make a diagnosis, based on the results of a survey applied to 71 students of the career of Systems Engineering of the Instituto Tecnológico de Mexicali.

Keywords: Google, Classroom, Ingeniería de sistemas.

Introduction

In the 1980s and 1990s, the issues of competitiveness were not on the agenda at meetings in which the top management of business organizations participated, but in this 21st century, with the great advances in information technologies and the communication, the changes are so rapid that top management must innovate. It is for this reason that researchers have focused their lines of research and development to generate new strategies for those organizations that are more competitive. This is the reason why this study points out to us the topics related to the use of the students of systems engineering career of the Instituto Tecnológico de Mexicali of Google Classroom.

Methodology

To begin to explain the design of the research as well as the conception of the research idea and the research problem, we later defined the objectives of research and formulation of research questions; in addition and following the methodology, we explain the type of methodology to be followed according to the proposed objectives. We will then focus on the specific description of our study population, indicating the main factors for which it has been delimited, including in addition the statistical formula used to determine the sample. In a following section we will define the technique and instrument used for the compilation of the information that makes up the sample, basically focusing on the survey. We will explain the main variables we have included in the research and the measures used to make them operations. On the other hand, we dedicate a section to the analysis of the measurement scales, so that we analyze the different dimensions of competitiveness according to the model used, based on a factorial analysis, as well as verified the reliability and validity of the previous scale of measurement with which we obtained the information, which we use in the next section. And finally we will detail the assumptions used in the research as well as the analytical techniques for comparing them statistically.

$$n = 71$$

$$N = 402 \qquad 402 (3.8416) (0.5) (0.5)$$

$$Z\alpha = 1.96 \qquad n = \frac{402(3.8416)(0.5)(0.5)}{(1.96)^2} = 71$$

$$p = .17 \qquad (402-1)(0.0025) + (3.8416)(0.17)(0.17)$$

q = .17

e = .17

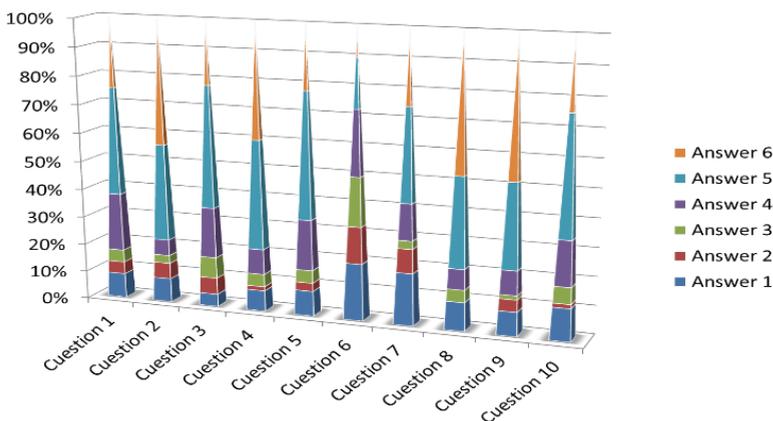
Survey

1. The Google Classroom Platform, which is used in the subjects of the career of Computer Systems Engineering at the Instituto Tecnológico de Mexicali, are known by students.
2. The Google Classroom platform that is used in the subjects of the Computer Systems Engineering career at the Instituto Tecnológico de Mexicali is useful for the student.
3. The Google Classroom platform that is used in the subjects of the Computer Systems Engineering career at the Instituto Tecnológico de Mexicali is used regularly in classes.
4. The Google Classroom platform that is used in the subjects of the career of Computer Systems Engineering at the Instituto Tecnológico de Mexicali will be recommended to other students.
5. The Google Classroom platform that is used in the subjects of the career of Computer Systems Engineering at the Instituto Tecnológico de Mexicali, considers them necessary for a better learning.
6. The Google Classroom platform that is used in the subjects of the Computer Systems Engineering career at the Instituto Tecnológico de Mexicali, Apart from the use in class you have seen them being used in some other career.
7. The Google Classroom platform that is used in the subjects of the Computer Systems Engineering career at the the Instituto Tecnológico de Mexicali, In the last 12 months you have used them.
8. The Google Classroom platform that is used in the subjects of the career of Computer Systems Engineering at the Instituto Tecnológico de Mexicali, If you had the opportunity to use this technology you would use it.
9. The Google Classroom platform that is used in the subjects of the career of Computer Systems Engineering at the Instituto Tecnológico de Mexicali, considers them reliable for use in the classroom.
10. As a student of the subjects of the career of Computer Systems Engineering at the Instituto Tecnológico de Mexicali, You consider yourself an enthusiast of the Google Classroom platform

With the following multiple choice answers:

- a. Strongly Disagree
- b. Disagree
- c. I slightly disagree
- d. A little agreement
- e. Agree
- f. Totally agree

Result:



Conclusions

Based on the answers obtained google classroom if it is known by the students, besides being considered useful, and is used regularly in classes, and students recommend it to other students, and consider them necessary for a good learning, it was detected that not all the students use the google classroom, but more than 50% of the students surveyed use it, 100% of the students surveyed want to use it, 80% of the students consider it a reliable tool, more than 90% of students are considered technology enthusiasts.

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