



Title: Influence of digital technologies on higher education students in times of the Covid-19 pandemic and the repercussions on their study habits

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Introduction

In this article, a second analysis is carried out that consists of monitoring the study habits of a group of 17 students, during the period of their higher education.

The interest in delving into study habits is to identify areas of opportunity and implement strategies that allow students to improve their study habits and avoid vices that hinder their study habits are sufficient to obtain better academic performance.

COVID-19 has struck our education system like lightning and shaken it to the bottom. (Kandri, 2020).

The closure of educational centers and the replacement of face-to-face classes by on-line and distance training has no alternative, due to the situation we are facing with a health crisis.

Problem

Currently, the way classes are taught in educational institutions has changed dramatically, this stemming from the COVID-19 pandemic.



In a sudden way and without expecting such a situation the schools of higher education have seen the need to change their didactic planning to adapt them from a face-to-face modality to a virtual modality



In addition, to look for strategies that encourage students to study habits. Based on this, a series of questions have arisen such as: How do digital technologies influence higher education students in times of the COVID-19 pandemic?

General objective

Analyze the study habits in 17 sixth semester students of Computer Systems Engineering of the Tecnológico Nacional de México, Campus Zacatecas Norte through a comparative study taking into account four periods, where the first, second and third correspond to the study habits implemented by the students in a face-to-face modality and the fourth moment in a virtual modality derived from the pandemic situation generated by COVID-19.

Reference framework

"Both in the face-to-face and in the virtual modality the purpose is the construction of knowledge by the students" (Manzuoli & Escofet Roig, 2015).

"Quarantine, in short, has accelerated by great strides the use of ICT for almost all daily activities, forcing users to use smart mobile devices connected to the network to perform any daily work" (Reinoso, 2020).

(Gutiérrez, Pacheco Amigo, & Rodríguez García, 2017) "Study habits are the right means to achieve the conditions for a better education".

For the purposes of this analysis, the questionnaire proposed by (Díaz Vega, 2006) has been considered as a data collection instrument, which considers seven variables or factors.

Metodología

Research focus:
Quantitative

Research scope:
Descriptive

Research design:
Not experimental,
cross

Population: 17
Computer Systems
Engineering students

Results

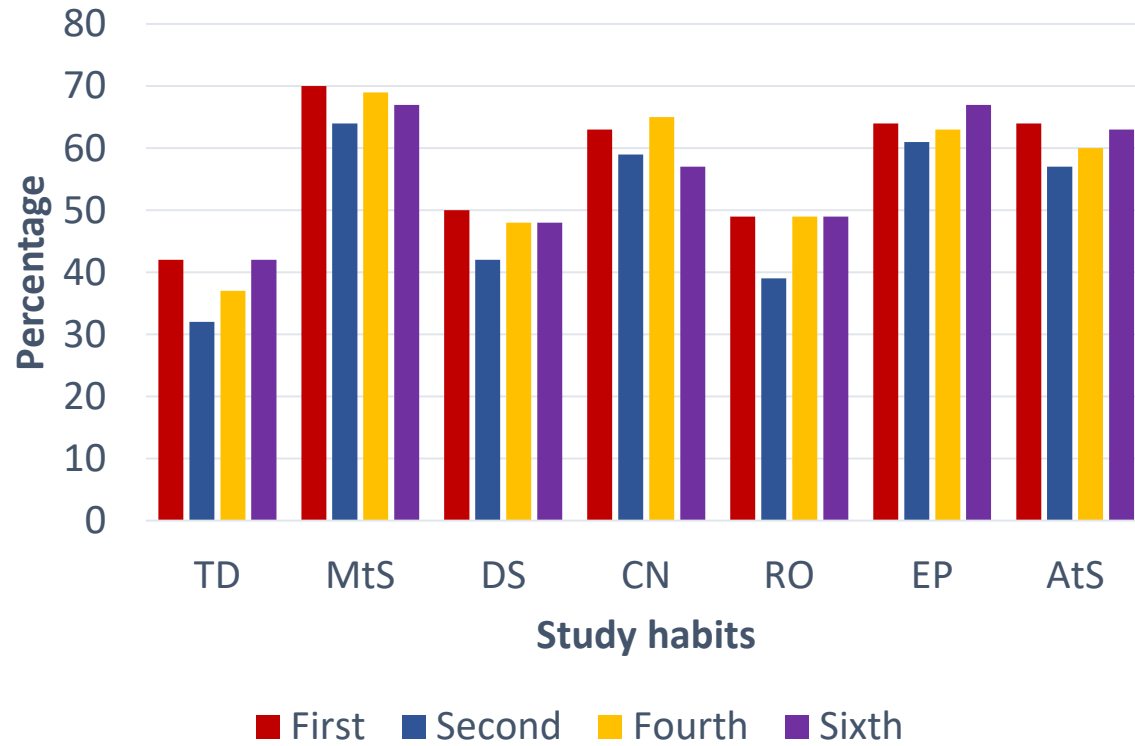
Weightings	
Points	Percentage %
30	100%
27	90%
24	80%
21	70%
18	60%
15	50%
12	40%
9	30%
6	20%
3	10%

Table 1. *Weighting in points and percentages*
Source: Own elaboration, (2021)

Average in percentage per semester				
SH	First	Second	Fourth	Sixth
TD	42	32	37	42
MtS	70	64	69	67
DS	50	42	48	48
CN	63	59	65	57
RO	49	39	49	49
EP	64	61	63	67
AtS	64	57	60	63

Table 2 Average as a percentage per semester of the SH
Source: Own elaboration, (2021)

Results



Graphic 1 Group average of SH in %

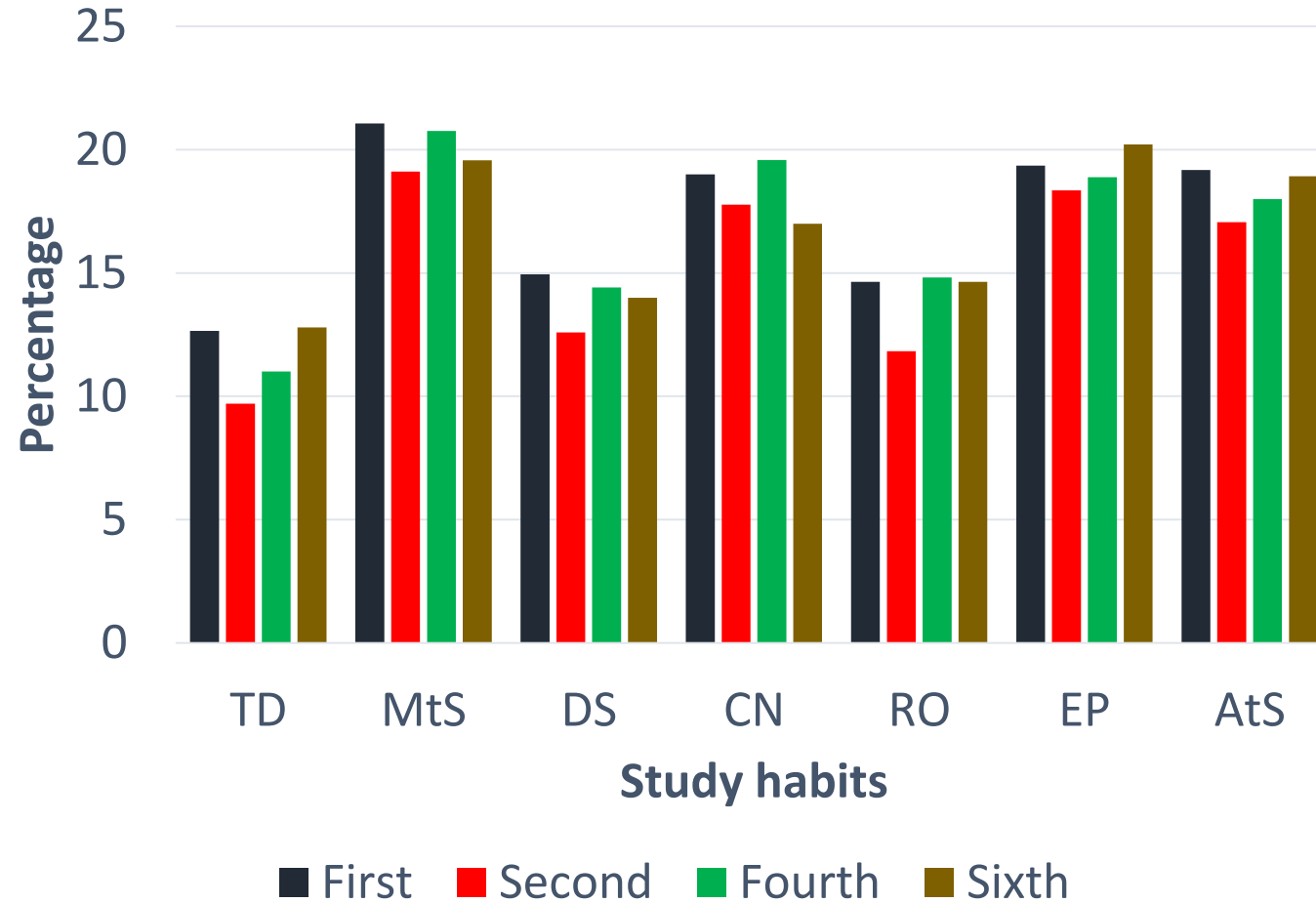
Source: Own elaboration, (2021)

Average in percentage per semester				
SH	First	Second	Fourth	Sixth
TD	12	10	12	13
MtS	10	10	11	20
DS	10	15	11	14
CN	11	14	12	17
RO	14	16	12	15
EP	8	13	13	20
AtS	9	9	9	19

Table 3 Group standard deviation of the SH

Source: Own elaboration, (2021)

Results



Graphic 2 Percentage of group standard deviation of SH per semester

Source: Own elaboration, (2021)

Conclusions

Facing the great challenge of classes in a virtual modality involves teamwork on the part of higher education institutions, as well as constant monitoring in the promotion of study habits in students.

It should be noted that in the study habits where there was a decrease in the period where the virtual modality has been implemented due to the COVID-19 pandemic are: motivation to study (MtS) and class grades (CN).

As can be seen from the results, the impact of the COVID-19 pandemic on conducting classes differently from how students were used to has affected their study habits to some extent, so that there is no significant increase, rather in some of them there is a considerable decrease.

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