



Maestría en Gestión e Innovación Tecnológica

Title

**Strategies to reduce desertion in higher  
education institutions**

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# Strategies to reduce desertion in higher education institutions

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Maestría en Gestión e Innovación Tecnológica

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## 1. Introduction

The school desertion is one of the indicators that in the last years has been increased, constitutes for his magnitude a serious problem of the national system of formal education. In addition, the high rates of leave of studies that produce in all the educational levels have negative incident on the political, economic, social and cultural processes of the development of any country (Duran y Díaz, 2011).

Even when if the statistical information has been analyzed to be able to identify the potential reasons, the design of strategies has his limitations. The previous thing have that inside the factors that influence the desertion, the academic reasons are not alone but also the problems of familiar, personal, economically, between others. In this work there are analyzed the reasons of the school desertion in the UPPue and it proposes some strategies to academic level to attack it.

## 2. Objectives

### 2.1. General objective

To develop suitable and pertinent strategies to bring down the index of desertion, in the careers of Engineering of the University Polytechnic of Puebla.

### 2.2. Specific objective

- To analyze the statistical information to identify the potential reasons of the desertion in the careers of Engineering of the University Polytechnic of Puebla.
- To develop a desertion model considering the principal factors that cause it.
- To design strategies to reduce the principal reasons that generate the school desertion.

## 3. Method

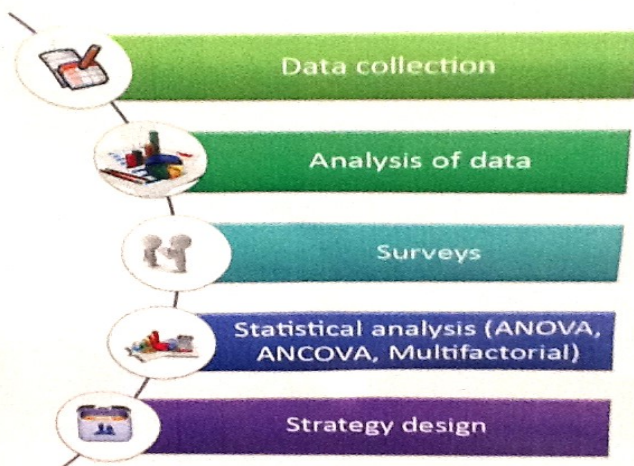


Figure1. Methodology utilized in this research

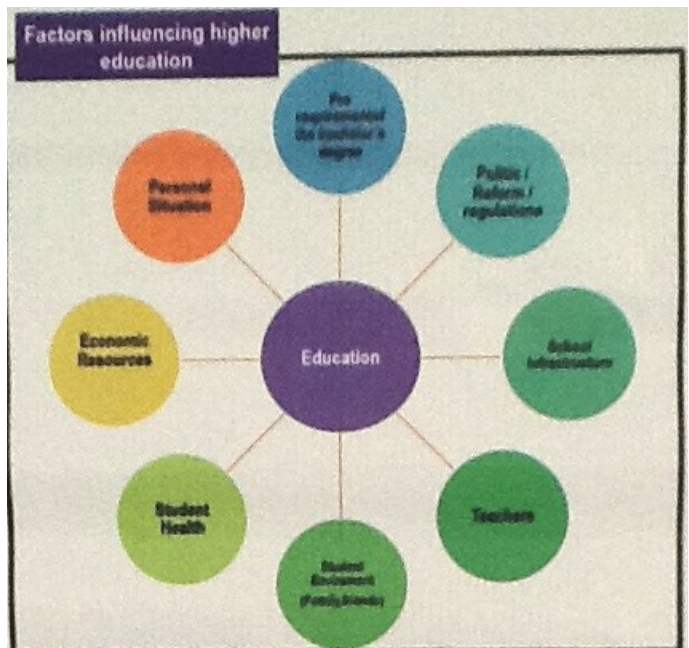


Figure 2. Factors that influence Higher Education

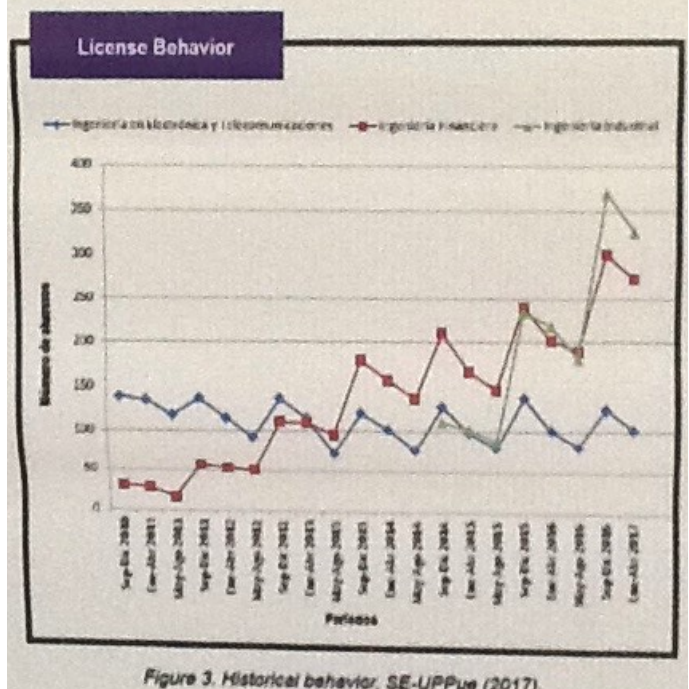


Figure 3. Historical behavior, SE-UPPue (2017).

## Reasons of definitive fall

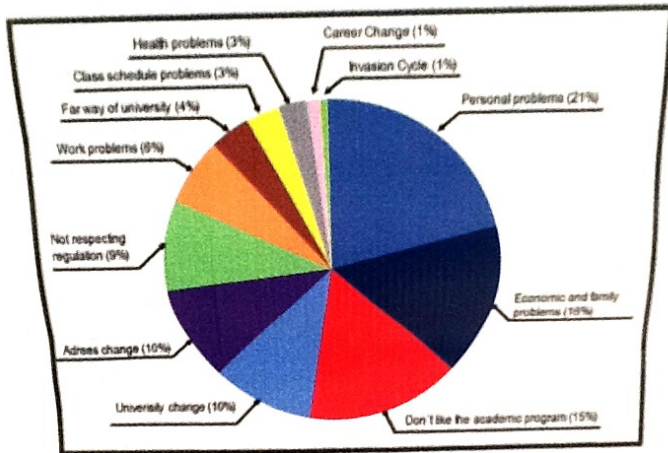


Figure 4. Main causes of desertion of September 2010 and December 2016.

## Industrial Engineering

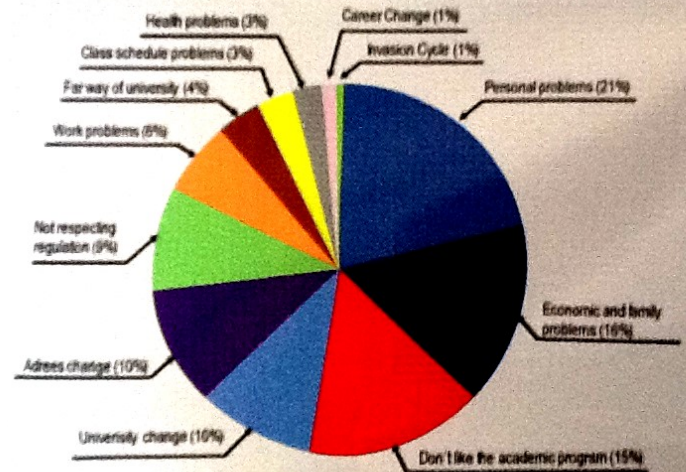


Figure 7. Reasons identified of fall for Industrial Engineering of September 2010 and December 2016.

## 4. Results

### Electronic and Telecom Engineering

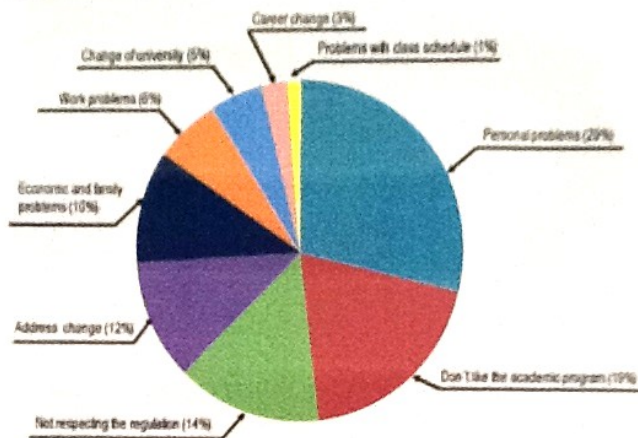


Figure 5. Reasons identified of fall for Electronic and Telecommunications engineering of September, 2010 to December, 2016

### Financial Engineering

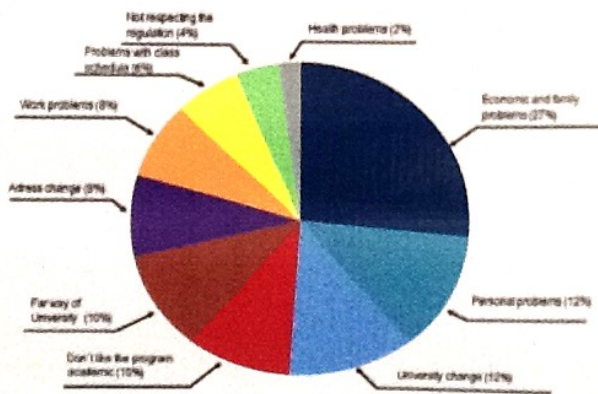


Figure 6. Reasons identified of fall for Financial Engineering of September 2010 and December 2016.

## 5. Conclusion

For Electronic and Telecommunications Engineering (IET) and Industrial Engineering(II), personal problems represent the principal reason that generates school desertion approximately 20%. In case of Financial Engineering (IF) the economic and familiar problems show 26 %. For IET, the II and IF the second reason of fall is that the program does not satisfy the expectations of the students, this reason is the third one most important for the II. The II presents 12 reasons identified by School Services, unlike IET, alone where there are nine reasons and in IF 10.

### Acknowledgements

To the Department of School Services for the facilities provided with access to the information.

### Bibliographic References

- Duran y Diaz (2011).
- SE-UPPue (2017). Statistics of School Services of University Polytechnic of Puebla.



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