



# Title: Strategies for early detection of students at risk of dropping out

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# Introduction

- Dropout in Higher Education Institutions is a **widespread** phenomenon
- The **goal** of this study is to know the factors that allow **identifying** at an **early stage, students who are at risk of dropping out**
  - Detecting students at risk began by monitoring their academic performance.
  - The results are promising, since they allow generating a profile of the student at risk of dropping out

# Proposal

- The Instituto Tecnológico Superior Zacatecas Norte has decided to make an effort to apply the "**prevention and intervention**" of Stăiculescu and Ramona (2019).
- An **academic tracking** of the initial courses students was carried out
- The number of **dropouts by study program was documented**, as well as the **reason for dropping out**, in order to determine if it was due to poor academic performance, or due to factors that are part of the institutional perspective.

# Results

- The students who dropped out of the study programs had a **deficient rating from high school.**
- About 80% of the dropouts were due to the fact that the Instituto Tecnológico Superior Zacatecas Norte was **not considered their first option to continue their professional studies.** Finally, they are students who enter temporarily hoping to be accepted at another institution.
- About 90% of the students who dropped out **failed on study programs in the first months of the course.**

# Conclusions

- Based on the academic tracking results, it is necessary to establish a traffic light strategy that allows the dropout phenomenon to be contained.
- The analogy with the traffic light allows us to determine that the green color is a student profile indicator with low probability of dropping out.
- On the other hand, it is necessary to attend to those students who, upon entering to high school, are already labeled in yellow, because they have a low-grade rate
  - The Tecnológico Nacional de México has a **tutorial** program whose purpose is to strengthen student profiles as an **empowering mechanism**, which allow preventively addressing phenomena such as failure, lag, and desertion.
  - The tutoring program can be used as a **containment mechanism**, with the aim of dissuading desertion. Given that the available number of tutors is insufficient, the tutor assignment will have to be based on the high school graduation grades, prioritizing tutoring to those students whose grades are less than 80.
  - It is crucial that career managers implement a **strong tracking** of exams failed.

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