

Impacto del curso 'Iniciación al Cálculo' en el semestre 2015-1

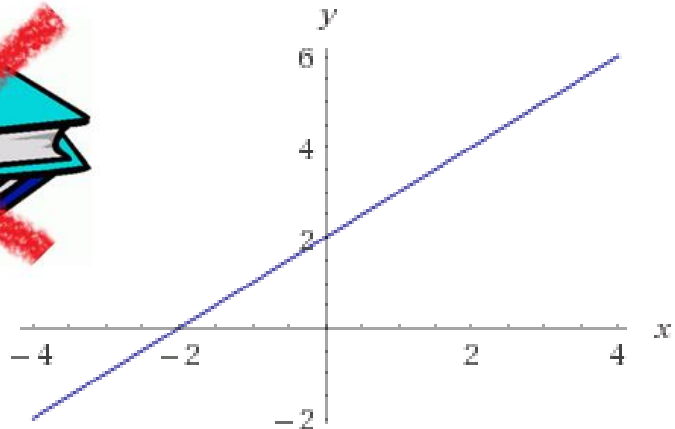
Advance Presentation
April 8th

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Problem Statement

```
double [] p=new double[4];
double [] q=new double[4];
double dx=x1-x2;
double dy=y1-y2;
p[0]=-dx;
p[1]=dx;
p[2]=-dy;
p[3]=dy;
```

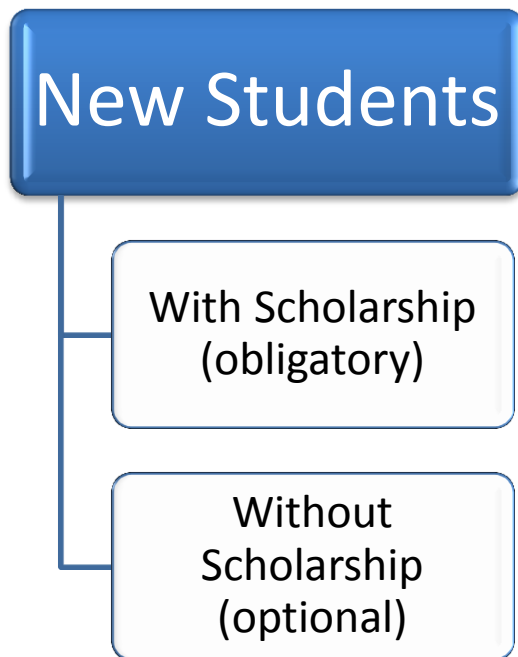
```
q[0]=x1-xwmin;
q[1]=xwmax-x1;
q[2]=y1-ywmin;
q[3]=ywmax-y1;
```



```
for (int i = 0; i < 4; i++) {
    if (p[i] != 0) {
        t[i] = (double) q[i] ,
    } else if (p[i] == 0 && q[i] < 0) {
        System.out.println("line cor
    } else if (p[i] == 0 && q[i] >=
        System.out.println("line cor
    }
}
```

Problem Statement

Test/Data



Objectives

General

Make a report for the department of Mathematical Sciences and the School of Sciences of EAFIT university about the status of previous mathematical knowledge of students entering the university at 2015-1.

Objectives

Specifics

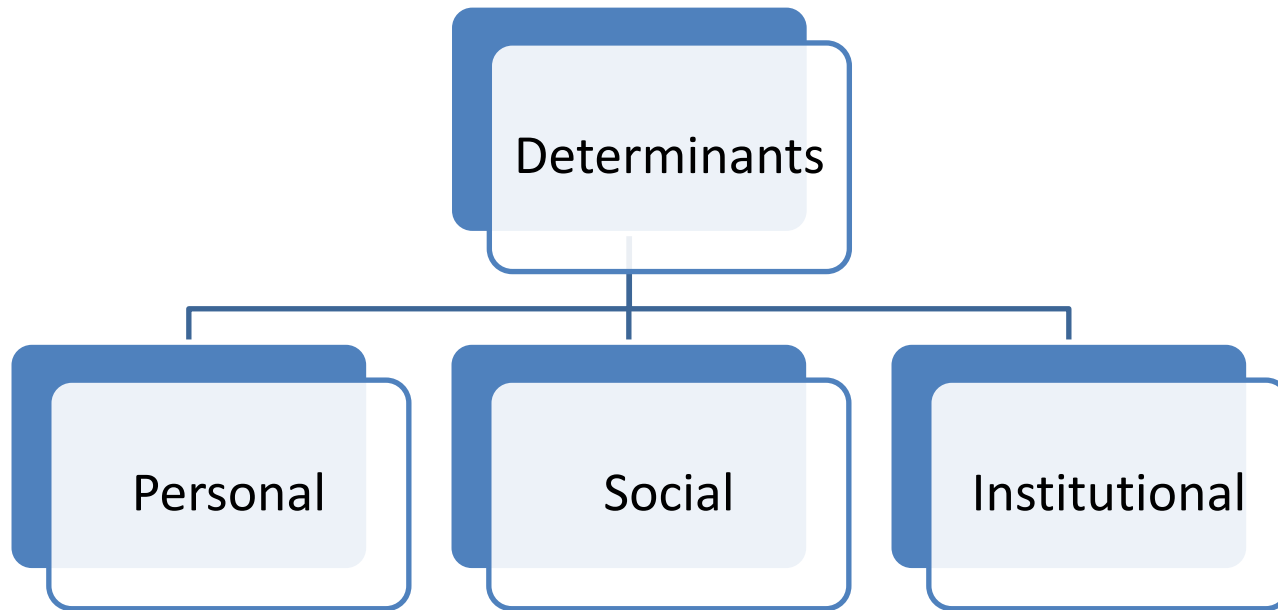
- To review theoretical framework from literature
- To define the amount and the variables of interest
- To extract information related to interesting variables from data bases
- To get the first calculus exam's grades of the new students
- To define the statistical tools to be used according to the interesting variables
- To write a report on the conclusions obtained about the interesting variables

Important Remarks

- *“The discussion about whether or not to use technology in higher education courses is no longer of concern because the real significant issue is in what manner technology is used at the university, teacher and student level” (Deed & Edwards, 2010; Sosin, Blecha, Bartlett, & Daniel, 2004).*

Important Remarks

Academic performance is multicausal



Important Remarks

Personal

Cognitive competence

Motivation

Cognitive conditions

Academical self-concept

Percived Effectiveness

Psicological Status

Satisfaction about studies

Important Remarks

Personal

Class attendance

Intelligence

Habilities

Gender

Previous academic training

Entrance examination grade

Important Remarks

Social

Social differences

Familiar environment

Education level of responsible adults

Mother's education level

Social and economical context

Demographic variables

Important Remarks

institutional

Program choice

Programs's complexity

Institutional conditions

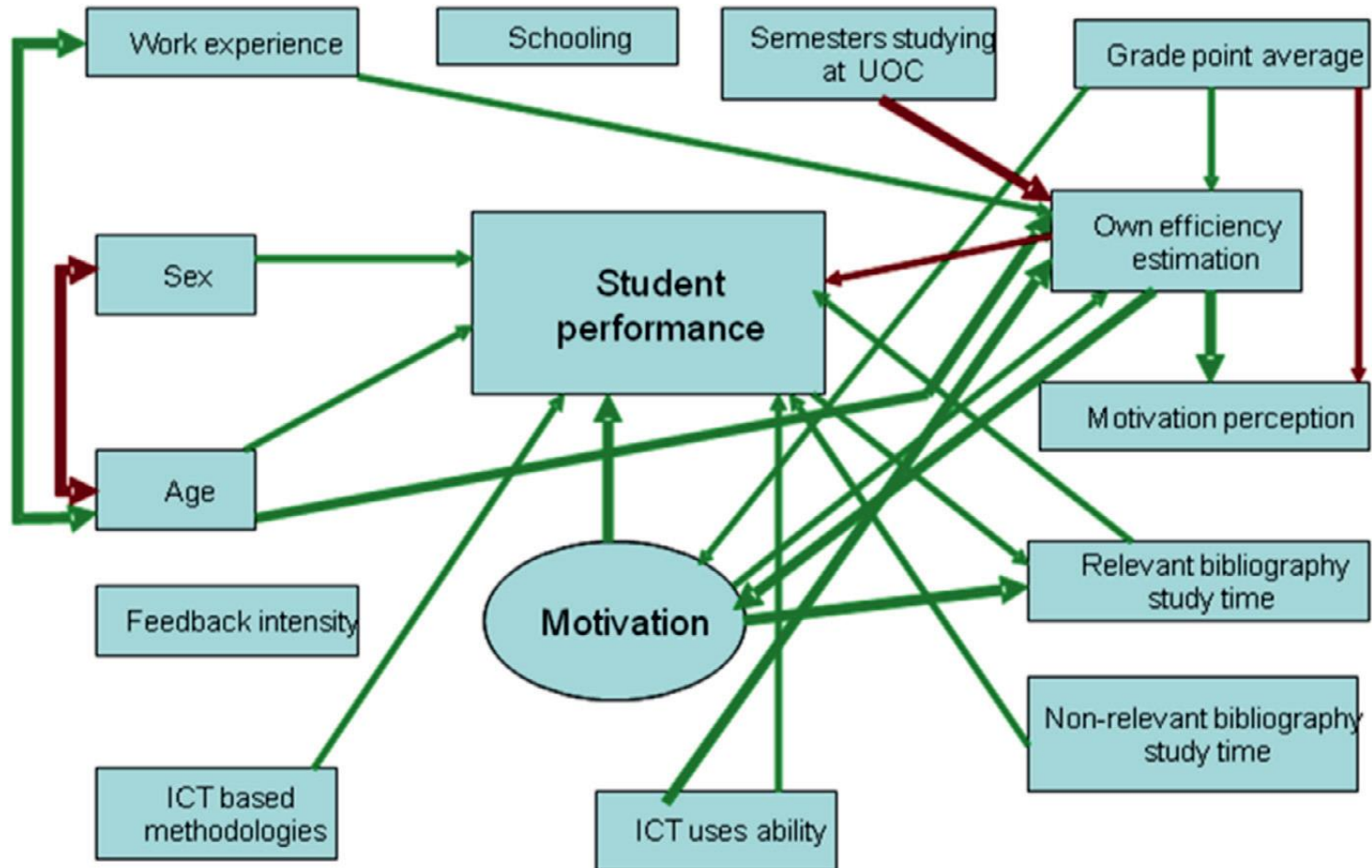
Institutional support

Institutional atmosphere

Student-teacher relationship

Specific test per career

Important Remarks



¡Thanks for your attention!

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