1. Course number and name
    IN2002  Design and Analysis of Experiments

2. Credits and contact hours
    3 - 0 - 8

3. Instructor's or course coordinator's name
    Héctor Rincón Arredondo

4. Text book, title, author, and year
    * Michael H. Kutner, Christopher J. Nachtsheim, John Neter y William Li, Applied
    Linear Statistical Models, fifth edition, McGraw-Hill, , , Inglés, [0-07-238688-6]
        a) other supplemental materials

5. Specific course information
    a. brief description of the content of the course (catalog description)
       This intermediate level course provides students with the necessary tools for
       designing and conducting experiments and for analyzing and interpreting the
       resulting data to solve problems. Prerequisites: Probability Distributions,
       Sampling and Hypothesis Testing. As a result of the course, students will be able
       to design and conduct experiments according to their discipline, in different
       contexts, in order to prove hypotheses.

    b. prerequisites or co-requisites
       MA1006

    c. indicate whether a required, elective, or selected elective (as per Table 5-1) course
       in the program
       Required

6. Specific goals for the course
    a. specific outcomes of instruction.
       Students will be able to: Plan and conduct experiments using experiment design
       methods and techniques; propose solutions for a problem using experiment
       design.

    b. explicitly indicate which of the student outcomes listed in Criterion 3 or any other
       outcomes are addressed by the course.
       Students will design and conduct experiments; they will get, analyze and interpret
       appropriate data; and will create relevant information for the development of a
       product or process.

7. Brief list of topics to be covered
    Introduction to statistical analysis
    Regression analysis

Design of experiments
Factorial design