FREE UNIVERSITY PEREIRA SECTION

UNDERGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING

SUBJECT: **STATISTICS I**

CODE: **----------**

SEMESTER: **ROOM**

HOURS   **WEEKLY:**   **4**

                            THEORETICAL: 2

                            PRACTICES: 2

GOALS.

To ensure that the student obtains the conceptual bases of Probability and Statistics

and can use these tools in the study of subsequent subjects where it is

Knowledge of statistical techniques is absolutely necessary

METHODOLOGY.

The course will be developed with master lectures by the professor on the content

basics of the subject; for their part, students will strengthen their knowledge of the subject
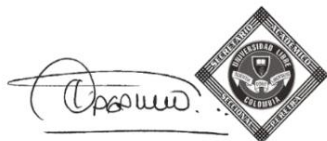
CAMINANDO EN LA EXCELENCIA

REACREDITACIÓN INSTITUCIONAL
MULTICAMPUS 2021-2027
ALTA CALIDAD
Resolución MEN n.º 015865 (25-08-2021)

www.unilibre.edu.co/pereira
Pereira, campus Universitario Belmonte - Av. Las Américas carrera 28 No. 96-102. Sede Centro, calle 40 No. 7-30. Sede Comité de Cafeteros Cra. 9a. 36-43.
PBX: (6)3401081 - 3401043

Vigilada Mineducación

through recommended readings, consultations with the teacher and the completion of exercises

of application.

WORK PROGRAM.

ÿ Frequency distributions

ÿ Mean, Median, Mode and other measures of centralization

ÿ Standard deviation and other measures of dispersion

- Moments, biases and kurtosis

- Elementary theory of probability

ÿ The Binomial, Normal and Poisson distributions

ÿ Elementary sampling theory

LITERATURE.

SPIEGEL MURRAY, Statistics, Ed. McGraw-Hill

CANAVOS, Probability and Statistics, Ed. McGraw-Hill

WALPOLE, Probability and Statistics for Engineers, Ed. McGraw-Hill

www.unilibre.edu.co/pereira

Pereira, campus Universitario Belmonte - Av. Las Américas carrera 28 No. 96-102. Sede Centro, calle 40 No. 7-30. Sede Comité de Cafeteros Cra. 9a. 36-43.
PBX: (6)3401081 - 3401043

Vigilada Mineducación

UNIVERSIDAD LIBRE®
Personería Jurídica No. 192 de 1946 de Mingobierno
Nit.: 860.013.798-5

centenario
EDUCANDO EN LIBERTAD PARA LA JUSTICIA Y LA PAZ

1ÖÖ

MARQUES, Probability and Statistics for Chemical and Biological Sciences, Ed. McGraw-Hill

CAMINANDO EN LA EXCELENCIA

REACREDITACIÓN INSTITUCIONAL
MULTICAMPUS 2021-2027
ALTA CALIDAD
Resolución MEN n.º 015865 (25-08-2021)

www.unilibre.edu.co/pereira
Pereira, campus Universitario Belmonte - Av. Las Américas carrera 28 No. 96-102. Sede Centro, calle 40 No. 7-30. Sede Comité de Cafeteros Cra. 9a. 36-43.
PBX: (6)3401081 - 3401043

Vigilada Mineducación