



UNIVERSIDAD LIBRE®

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



FREE UNIVERSITY PEREIRA SECTION

UNDERGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING



SUBJECT: STATISTICS II

CODE: -----

SEMESTER: FIFTH

WEEKLY HOURS: 4 THEORETICAL: 4

PRACTICES: 0

REQUIREMENTS: STATISTICS I

GOALS.

To ensure that the student acquires advanced knowledge about Probability and Statistics.

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





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WORK PROGRAM.



- statistical estimation theory
- Statistical decision theory, hypothesis testing and significance
- Small sample theory
- The Chi-square test
- Curve fit and least squares method
- Correlation theory
- Multiple and partial correlation
- Time series analysis
- Index numbers

LITERATURE.

SPIEGEL MURRAY, Statistics, Ed. McGraw-Hill

CANAVOS, Probability and Statistics, Ed. McGraw-Hill

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





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



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