



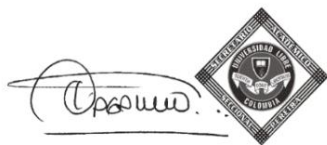
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FREE UNIVERSITY PEREIRA SECTION

UNDERGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING



SUBJECT : BASIC MATHEMATICS

CODE: -----

SEMESTER: FIRST

HOURS WEEKLY: 4

THEORETICAL: 4

PRACTICES: 0

GOALS :

Strengthen mastery of the concepts and basic operations of the mathematics to be able to advance and deepen the study of this science, which constitutes one of the fundamental pillars of engineering.

METHODOLOGY:

The teacher must make a great effort to teach the subject in the most



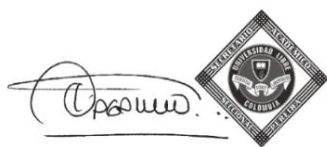


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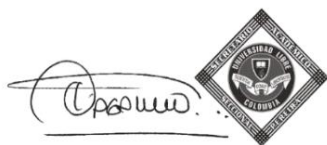


understandable because the student needs to understand and handle the tools mathematics with great mastery. He must involve the class very much and use in addition to guide books, other learning methodologies, such as group work for the problem solving, for the formulation of others and their solution. Must achieve that the student obtains good learning, rather than making the subject an obstacle for the continuation of the race.



PROGRAM CONTENT:

- The mathematical method and the number system.
- Polynomials, algebraic fractions, exponents and radicals.
- Equations, vectors, matrices and inequalities
- Functions and relations. Algebraic, exponential, and logarithmic functions.
- Trigonometric functions of angles and real numbers.



BIBLIOGRAPHY :

CKIFFORD R. & SPRINGER B. Basic Mathematics. Ed. Daimón. Spain 1974

ALLEENDOERFER O. Fundamentals of University Mathematics. Ed. McGRAW HI

MARTIN G., SALLEY ANN. Practical Mathematics. Tutor Text. Ed. Doubleday Co.





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