Potentiation

Course: Basic Mathematics for undergraduate course as a summer/winter as a prerequisite to take the course in Financial Mathematics.

General idea of the course: to promote conceptual leveling of students who study financial mathematics with basic math concepts so that they can make better use of the course. In addition, this course as a prerequisite also facilitates the work of professors of financial mathematics need not review the contents of basic mathematics as they were previously addressed.

Course Objective: To review concepts and content of basic math to promote a leveling learning in mathematics, especially one that will be used during the course of financial mathematics.

The objective of this course is to guide the students to learn in a collaborative way the mathematic operation of potentiation. This course is offered using a on line format, and giving the students the opportunity to communicate with each other, creating an on line community that will facilitate the learning process.

Content to be taught in the course:

The content that will be taught in the course will have the necessary relation to the content characteristics of financial mathematics. Thus, what content was analyzed basic math is required for each of the content of financial mathematics worksheet as follows:

Syllabus of the course	Content equivalent basic math
Simple Interest	Multiplication
	Equation of first degree
Compound Interest	Empowerment
	fraction
	logarithm
	equations
Series payment	distributive properties?
	potentiation
	fraction
	logarithm
Discounts inside and outside	Equation First Grade
Interest amortization	composite systems
	Equation of first degree
	Calculations in tables

Topic: Potentiation

Goal: This exercise will attend a two proposals:

-As a student we will learn how to develop a collaborative course and post it into a collaborative online community;

As a professor we will teach students the mathematic operation of "Potentiation"

Learning Objectives

-The participants will discuss the utility of using the potentiation operation;

-Examine math operations that are involved with potentiation;

-Assure that all students understand the utility and dominate the necessary tools to understand potentiation;

-Participate in a collaborative on line exercise to fasten the concepts and operations.

Schedule and Agenda:

Class 1: Mathematic concepts

Class 2: Operation of Potentiation

Class 3: Exercices and Discussion

Assessment of Learning

Type of Assessment	Individual/Group	%
Reflective Journal: Why is important to learn the	individual	10
potentiation Operation		
Which Mathematicss operation should we know to	Group	20
learn the potentiation?		
In group develop some possible exercises using	Group	20
potentiation		
Resolve propose problems that includes	individual	15
potentiation operation		
Resolve same problems	Group	20
Discuss future possible use of potentiation	Group	15