

MA1015
Mathematics I[Show Analytics](#)
SPANISH**CIP:** 270101 Mathematics, General.**C-L-U:** 3-0-8

Academic department that offers it:
Mathematics

Graduate Programs who offer them:

1 IA11, 1 IBN11, 1 IBT11, 1 IDA11, 1 IC 11, 1 IDS11, 1 IFI11, 1 IIA11, 1 IID12, 1 IIS11, 1 IMA11, 1 IMD11, 1 IME11, 1 IMI11, 1 IMT11, 1 INCQ13, 1 INT11, 1 IQA11, 1 IQP11, 1 ISC11, 1 ISD11, 1 ITC11, 1 ITE11, 1 ITIC11, 1 ITS11, 1 LAF11, 1 LDF11, 1 LEC11, 1 LEF11, 1 IAB11, 1 IIN12, 1 ITM11, 1 LCQ11, 1 LDC11, 1 LEP11

Certificates

Requirement:
(MA1001)

Equivalence:
MA1002 ; MA1016 ; MA1012

General aim of the course:
Upon completion of this course, students will be able to recognize, in real situations, the variation of one given variable compared with another, and to represent mathematically and analyze the relationship between both variables, using derivatives and including, as well, the analysis of the behavior of a function at infinity and the case when the function has infinite discontinuities.

Teaching and learning techniques:
Collaborative learning

Bibliography:
BOOKS FOR CONSULTATION:
* Salinas, Alanis, Pulido, Santos, Escobedo y Garza, Elementos del Cálculo, México: Trillas, 2005,
* Larson, Hostetler, Edwards, Cálculo con Geometría Analítica, México: McGraw-Hill, 1995,
* Purcell, Varberg, Rigdon, Cálculo, México: Pearson Educación, 2010,
* Stewart, Calculus Early Transcendentals, Belmont, CA: Thomson Brooks/Cole, 2010,
* Prado, Santiago, Gómez, Quezada, Zúñiga, Pulido, Barajas, González y Aguilar, Cálculo Diferencial para Ingeniería, México: Pearson Educación, 2010,
* Thomas, Finney, Cálculo Una Variable, México: Pearson, Addison-Wesley,

Professor´s profile:
Master Degree in the area of Engineering; Master Degree in Physics; Master Degree in Mathematics; Doctoral Degree in the area of Engineering; Doctoral Degree in Physics; Doctoral Degree in Mathematics
CIP: 14, 400801, 270101

Language of Instruction:
Spanish