

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	452 - Degree in Chemistry
ECTS	12.0
Course	1
Period	Annual
Subject Type	Basic Education
Module	---

1.Basic info**1.1.Recommendations to take this course****1.2.Activities and key dates for the course****2.Initiation****2.1.Learning outcomes that define the subject****2.2.Introduction****3.Context and competences****3.1.Goals****3.2.Context and meaning of the subject in the degree****3.3.Competences****3.4.Importance of learning outcomes****4.Evaluation****5.Activities and resources****5.1.General methodological presentation****5.2.Learning activities****5.3.Program**

1) Differential Calculus in one variable

2) Linear systems of equations and Vector spaces

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- 3) Diagonalization of matrices
- 4) Differential Calculus in several variables
- 5) Interpolation and nonlinear equations
- 6) Integral Calculus in one variable
- 7) Multiple Integral
- 8) Line and Surface Integral
- 9) Differential equations

5.4.Planning and scheduling

5.5.Bibliography and recommended resources

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|-----------|--|
| BB | Marsden, Jerrold E.. Cálculo vectorial / Jerrold E. Marsden, Anthony J. Tromba ; Versión en español Javier Páez Cárdenas ; Colaboración técnica Purificación González Sancho . - 4a. ed México [etc.] : Addison-Wesley Longman, 1998 |
| BB | Strang, Gilbert. Algebra lineal y sus aplicaciones / Gilbert Strang ; revisión técnica, Edmundo Palacios Pastrana . - 4ª ed. México D. F. : International Thomson, cop. 2007 |
| BB | Zill, Dennis G.. Cálculo de varias variables / Dennis G. Zill, Warren S. Wright ; revisión técnica, Marlene Aguilar Ábalo ... [et al.] . - 4ª ed. México [etc.] : McGraw-Hill, cop. 2011 |
| BC | Neuhauser, Claudia. Matemáticas para ciencias / Claudia Neuhauser ; traducción, Ana Torres Suárez . 2ª ed., reimp. Madrid [etc.] : Pearson Prentice Hall, D.L. 2009 |
| BC | Pastor, Eduardo. Teoría y problemas de cálculo integral / Eduardo Pastor, Víctor Varela . - [1a. ed.] Madrid : Crisser, D.L. |

27202 - Mathematics

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Zill, Dennis G.. Cálculo con geometría
analítica / Dennis G. Zill ; traductor
Eduardo Ojeda Peña ; revisores técnicos
Bertha Dávila de Apodaca ... [et al.]
México, D.F. : Iberoamérica, cop. 1987