- Course title: **Organic Chemistry I**.
- Course code: 5271
- Type of course: compulsory
- Level of course: fundamental
- Year of study: 2
- Semester: 1
- Number of credits allocated: 6
- Name of lecturer: Teresa Rodríguez
- Objective of the course:
    - Recognize the reaction types of organic compounds that have functional groups with single bonds, alkenes, alkynes and aromatic compounds.
    - Interpret the reactions in terms of their mechanisms
    - Interpret the scope and limitations of organic reactions and their synthetic applications.
    - Identify the different functional groups present in organic compounds with UV-visible spectroscopy, inferred spectroscopy and mass spectrometry.
- Prerequisites: It is recommended that students should have attended General Chemistry I and General Chemistry II before following this course.
- Course contents: general aspects of organic reactions; nucleophilic substitution reactions at saturated carbon; elimination reactions; electrophilic addition reactions; substitution reactions on aromatic compounds; structural determination: ultraviolet-visible spectroscopy, infrared spectroscopy and mass spectrometry.
- Recommended reading:
    - Organic Chemistry, WADE, L. G., 7th Ed., 2010, Pearson International Edition, Upper Saddle River (New Jersey)
    - Organic Chemistry, SOLOMONS, G. T. W., 8th Ed., 2004, John Wiley & Sons, Inc., New York
    - Organic Chemistry, VOLLHARDT, K. P. C and SCHORE, N.E., 5th Ed., 2007, W. H. Freeman Company, New York
    - Organic Chemistry, BRUICE, P. Y., 5th Ed., 2007, Pearson Prentice Hall, Upper Saddle River
    - Química Orgánica, HART, H.; HART, D. J. and CRAINE, L. E., 12th Ed., 2007, Houghton Hifflin,
    - Métodos espectroscópicos en Química Orgánica, HESSE, M., MEIER, H. and ZEEH, B., (2005) 2nd Ed., Editorial Síntesis, Madrid
- Teaching methods:
    - Lectures: teachers explain the contents of the lessons.
    - Seminars: students and teacher discuss the problems and other points raised in class.
- Assessment methods:
    - Resolution of problems, issues and other proposals: 30%
    - Participation and attitude in lectures and seminars: 10%
    - Written work and exams: 60%
- Language of instruction: Spanish and/or English