

- Course title: **Organic Chemistry II.**
- Course code: 5277
- Type of course: compulsory
- Level of course: fundamental
- Year of study: 2
- Semester: 2
- Number of credits allocated: 6
- Names of lecturers: María García and María José Rojo
- Objective of the course: upon completion of course students will be able to: explain and predict results in organic reactions which involve functional groups with multiple heteroatomic bonds (carbonyl group, carboxylic derivatives, nitriles,...); explain and predict results from molecular rearrangements; explain and predict results from radical reactions; identify the scope, importance and limitations of organic reactions; apply NMR to elucidate the structure of organic compounds.
- Prerequisites: It is recommended that students should have attended Organic Chemistry I before following this course.
- Course contents: organic reactions which involve functional groups with multiple heteroatomic bonds: nucleophilic addition, conjugate addition, nucleophilic substitution at the carbonyl group; radical reactions; molecular rearrangements; proton and carbon nuclear magnetic resonance.
- Recommended reading:
 - Clayden, J.; Greeves, N.; Warren, S.; Wothers, P. (2001) Organic chemistry, 1st Ed., Oxford University Press.
 - Vollhardt, P.C.; Schore, N. E. (2005), Organic Chemistry: Structure and Function, 5th Ed., W. H. Freeman.
 - Ege, S. (2004) Organic Chemistry. Structure and reactivity, 5th Ed., Houghton Mifflin Company.
 - Bruice, P. Y. (2007) Organic Chemistry, 5th Ed., Prentice Hall.
 - Breitmaier, E. (2002) Structure Elucidation by NMR in Organic Chemistry: A Practical Guide, 3rd Ed., John Wiley & Sons.
 - Hesse, M.; Meier, H.; Zeeh, B. (2005) Métodos Espectroscópicos en Química Orgánica, 2nd Ed., Síntesis.
- 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: 40%
 - Written work and exams: 60%.
- Language of instruction: Spanish and/or English