



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Laboratorio di Chimica Organica III

1920-3-E2702Q101-E2702Q103M

Aims

elements of functional groups elaboration and organic synthesis

Contents

examples of single and/or multi step organic reactions involving functional group transformations, diazocopulation reaction (synthesis of methylorange dye), Diels Alder reaction and an aldolic condensation

Detailed program

- reduction of a keton
- Friedel Craft Alkylation
- Oxidation of an aldehyde un green conditions
- dehydration of an alchool
- synthesis of an azo dye
- Diels Alder reaction
- Aldholic condensation

Prerequisites

sound knowledge of basic organic chemistry

Teaching form

lab experiences about the reactions and processes described in the detailed program

Textbook and teaching resource

lab book prepared by the teacher

Semester

third year first semester

Assessment method

In details, the student will be evaluated on the basis of the capability to safely work in an organic chemistry lab, according to the best practices for every procedure. The capability to work in a team as well as the experimental results will be evaluated. As the experiences will involve either synthesis of molecules or elaboration of functional groups, for every single isolated sample yield, identity and purity will be evaluated. Finally, the quality and clarity of lab reports will be evaluated.

At the report level, attention will be payed to the correct handling of the experimental data, also in terms of errors theory.

Office hours

upon request
