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**COURSE: ORGANIC CHEMISTRY – Mod. 1**

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**ACADEMIC YEAR: 2017-2018**

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**TYPE OF EDUCATIONAL ACTIVITY: Basic**

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**TEACHER: Prof. Rocco Racioppi**

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e-mail: **rocco.racioppi@unibas.it**

website:

phone: : **0971 205494**mobile (optional): **3383512003**

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Language: **ITALIAN**

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ECTS: **6** lessonsn. of hours: **48** lessonsCampus: **Potenza**Dept./School: **Department of Sciences**Program: **Pharmacy (LM-13)**Semester: **I**  
**(from 2 October 2017 to 31 January 2018)**

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**EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES**

The aim of the course is to acquire the knowledge of organic chemistry/ Part 1 by the study of common reaction mechanisms. The final goal is to give to the student the basic knowledge of organic chemistry necessary for subsequent study of biochemistry and pharmaceutical chemistry.

After having completed the course, the student should:

- 1) Demonstrate knowledge of fundamental contents in the basic areas of organic chemistry;
- 2) Understand the relationship between structure and function of molecules, the major classes of reactions, reaction energetics and mechanisms;
- 3) Integrate knowledge with critical thinking to solve synthetic problems;
- 4) Articulate scientific information through oral communication;
- 5) Articulate scientific information through written communication.

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**PRE-REQUIREMENTS**

In order to understand Organic Chemistry, the student should have good knowledge of the basic principles of General Chemistry

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**SYLLABUS**

1. Fundamentals. Recall of General Chemistry. (3h)
  2. Main classes of organic compounds. (4h)
  3. Introduction of organic reactions. (3h)
  4. Nomenclature and conformations of alkanes and cycloalkanes. (6h)
  5. Stereochemistry (4h)
  6. Reactions of nucleophilic displacement and elimination in alkyl halides. (8h)
  7. Additions to alkenes and alkynes. (6h)
  8. Radical reactions. (2h)
  9. Alcohols and ethers. (3h)
  10. Aromatic compounds (4h)
  11. Heterocyclic compounds. (4h)
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**TEACHING METHODS**

- Theoretical lessons.

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**EVALUATION METHODS**

The aim of the final examination is to evaluate the level of achievement of the educational goals .

The final examination consists of an oral exam concerning the contents of part 1 and 2.

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TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- G. Solomons, Chimica Organica; Zanichelli

Course slides will be available from a shared Dropbox folder, whose link will be furnished to the students attending the classroom. Furthermore, links to websites, where exercises are available, will be provided.

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INTERACTION WITH STUDENTS

At the beginning of the course the teacher will describe the educational goals, the syllabus and the examination methods to the students and ask for the institutional emails of the attending students. All course information will be sent to the provided email addresses.

Office hour: on Wednesday and Thursday from 16.00 to 17.00; alternatively, by email appointment

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EXAMINATION SESSIONS (FORECAST)<sup>1</sup>

*12/02/2018; 02/03/2018;04/06/2018; 02/07/2018; 10/09/2018;08/10/2018;05/11/18*

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SEMINARS BY EXTERNAL EXPERTS    YES     NO

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FURTHER INFORMATION

Students are strongly encouraged to attend all lessons.

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<sup>1</sup>Subject to possible changes: check the web site of the Teacher or the Department/School for updates.