
COURSE: Industrial and Applied Organic Chemistry

ACADEMIC YEAR: 2019-2020

TYPE OF EDUCATIONAL ACTIVITY: optional course

TEACHER: Paolo Lupattelli

e-mail: paolo.lupattelli@unibas.it

website: scienze.unibas.it/site/home.html.

phone: (+39) 0971205495

mobile (optional): **(+39) 3204234377**

Language: **italian**

ECTS: **6** CFU (6 lessons
and 0 tutorials/practice)n. of hours: **48** (48 lessons
and 0 tutorials/practice)Campus: **Potenza**Dept./School: **Dipartimento di
Scienze**Semester: **II**(from 02/03/2020 to
31/05-30/06/2020)

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The educational goal is to give to the student a general outlook of the most important process and products of the industrial organic chemistry. The student should understand the technical and economical options of the modern petrochemical industry taking into account the new parameters of competitiveness and sustainability.

PRE-REQUIREMENTS

SYLLABUS**- characteristics of chemical industry****- basic chemicals and processes of petroleum and petrochemical industry****- chemicals and polymers from ethylene, propylene, benzene, methane, derivatives of C₄ fraction****- industrial catalysis**

TEACHING METHODSclassroom lessons

EVALUATION METHODSoral examination

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Wittcoff, Reuben, Plotkin **Industrial Organic Chemicals**, III Edition, Wiley, 2013
 - Hagen, **Industrial Catalysis**, II Edition, Wiley, 2006
 - Weissermel, Arpe, **Industrial Organic Chemistry**, Third Edition, VCH, 1997
 - Pollak, **Fine Chemicals: the industry and the business**, II Edition, Wiley, 2011
 - Green, Wittcoff, **Organic Chemistry: Principles and Industrial Practice**, Wiley-VCH, 2003
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INTERACTION WITH STUDENTS

EXAMINATION SESSIONS (FORECAST)¹

25/06/2020

23/07/2020

24/09/2020

15/10/2020

29/10/2020

12/11/2020

17/12/2020

SEMINARS BY EXTERNAL EXPERTS YES NO **FURTHER INFORMATION**

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