
COURSE: Industrial Chemical Technologies

ACADEMIC YEAR: 2019-2020

TYPE OF EDUCATIONAL ACTIVITY: Free choice

TEACHER: Rachele Pucciariello

e-mail: marinapucciariello@gmail.comwebsite: scienze.unibas.it/site/home.html

phone: 3381347183

mobile (optional):

Language: **ITALIAN**

ECTS: (lessons e
tutorials/practice)
6n. of hours: (lessons e
tutorials/practice)
48Campus: **Potenza**
Dept./School: **Dipartimento di
Scienze**
Program: **CHIMICA (L-27)**Semester: II
(date)**From 02.03.2020 to 31
May - 20 June 2020**

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

- Aim of the course is to give the students a sufficient knowledge on the synthesis and characterization of polymeric materials and in particular on structure and morphology in relation with properties.
 - At the end of the course the student will have to be able to recognize the main properties of polymers, of polymer composites and elastomers
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PRE-REQUIREMENTSBasic elements of Macromolecular Chemistry

SYLLABUS

Crystalline polymers and amorphous polymers
Melting and crystallization
Mechanical properties of polymers
Viscoelastic behaviour
Dynamic-mechanical properties
Elastomers
Polymer blends
Composites and nanocomposites
Polymerization through catalysis on transition metals

TEACHING METHODSTheoretical lessons

EVALUATION METHODSOral examinations

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Material furnished by the teacher
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INTERACTION WITH STUDENTSContact through WA to get an appointment

EXAMINATION SESSIONS (FORECAST)¹25/6/2020-2/7/2020-25/10/2020-30/11/2020-3/12/2020

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.