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**COURSE:** Chemistry and Technology of Polymers

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**ACADEMIC YEAR:**2016/17

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**TYPE OF EDUCATIONAL ACTIVITY:** Free choice

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**TEACHER:** Prof. rachele Pucciariello

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**e-mail:** rachele.pucciariello@unibas.it**website:****phone:****mobile (optional):**

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**Language:** Italian

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**ECTS:** (lessons e  
tutorials/practice)  
6**n. of hours:** (lessons e  
tutorials/practice)  
48**Campus:** Potenza  
**Dept./School:**Science  
**Program:**Chemical Sciences  
(LM54)**Semester:** I

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**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-REQUIREMENTS**Basic elements of Macromolecular Chemistry

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**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*

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**TEACHING METHODS**Theoretical lessons

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**EVALUATION METHODS**Oral examination

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**TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL**Material furnished by the teacher

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**INTERACTION WITH STUDENTS**The students will have to contact the teacher by email or WA to get an appointment

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**EXAMINATION SESSIONS (FORECAST)<sup>1</sup>**23/2/17, 22/3/17, , 20/6/17, 18/7/17, 26/9/17, 24/10/17

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**SEMINARS BY EXTERNAL EXPERTS** YES  NO  X

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**FURTHER INFORMATION**

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