## Course Title

**Technical and Scientific Communication**

### Course Details

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Technical and Scientific Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
<td>72004</td>
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<tr>
<td>Scientific Sector</td>
<td>M-FIL/02</td>
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<tr>
<td>Degree</td>
<td>Master in Computer Science (LM-18)</td>
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<tr>
<td>Semester</td>
<td>2</td>
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<tr>
<td>Year</td>
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<tr>
<td>Credits</td>
<td>4</td>
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<tr>
<td>Modular</td>
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### Specific Educational Objectives

The course belongs to the type "affini o integrative – formazione affine" in the curriculum "Software Engineering and IT Management". This course is a compulsory course for the Master in Computer Science Programme. For IT people knowledge transfer is crucial. Therefore, this course is designed specifically to improve written and oral communication competence and skills of students in scientific and technical contexts.

### List of Topics

- Technical writing
- Speech preparation and presentation
- Learning styles
- Communication and Group work

### Teaching Format

Frontal lectures and seminars, exercises in groups, cognitive exercises. Each of the three main methods of scientific communication (writing, speaking, and preparing a presentation) will involve the students discussing each other's work.

### Learning Outcomes

Applying knowledge and understanding:

- Be able to understand and write documentation for technical, scientific reporting.
- Making judgments
- Be able to independently select the documentation required
- to keep abreast of the frequent technological innovations in the
field by using a wide variety of documentary sources: books, web, magazines.

**Communication skills**
- Be able to structure and prepare scientific and technical documentation describing project activities.
- Be able to present in a fixed time the content of a scientific/technical report in front of an audience also composed of non-specialists.

**Learning skills**
- Be able to autonomously extend the knowledge acquired during the study course by reading and understanding scientific and technical documentation
- Be able to independently keep up to date with developments in the most important areas of Computer Science.

### Assessment

**Written and oral:**
- Written exam based on a scientific or technical article written by the student on a topic chosen from the field of computer science.
- Oral presentation by the student during the exercise session scheduled. The allocated time is from 15 to 30 minutes including feedback by the students in the class for the presenter.

### Assessment language

English

### Evaluation criteria and criteria for awarding marks

An assessment score out of 100 points is given. The evaluation criteria is as follows:

- Written examination (a short paper): The evaluation is based on how much the scientific paper complies with the principles of good scientific and technical writing. The short paper will be sent in advance for adequate evaluation. Specifically the following elements will be assessed:
  - Quality and structure of the paper: 30 points
  - Language used in the paper: 10 points
  - Use of illustrations: 10 points
  - Correct formatting based on the constraints: 10 points
- Oral presentation on the chosen topic in computer science (15 to 30 minutes presentation including feedback). The evaluation is based on
  - how well the presentation slides are designed (15 points)
  - whether the oral communication skills are gained by the student (25 points)

### Required readings

- M. Davis, Scientific papers and presentations, San Diego, Acad. Press, 2000

All other material will be produced in house.
| Software used | -- |