# COURSE DESCRIPTION – ACADEMIC YEAR 2021/2022

<table>
<thead>
<tr>
<th><strong>Course title</strong></th>
<th>Software Project Management</th>
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<tbody>
<tr>
<td><strong>Course code</strong></td>
<td>76425</td>
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<tr>
<td><strong>Scientific sector</strong></td>
<td>INF/01</td>
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<tr>
<td><strong>Degree</strong></td>
<td>Bachelor in Informatics and Management of Digital Business (L-31)</td>
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<tr>
<td><strong>Semester</strong></td>
<td>2</td>
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<tr>
<td><strong>Year</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Credits</strong></td>
<td>6</td>
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<tr>
<td><strong>Modular</strong></td>
<td>No</td>
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| **Total lecturing hours** | 30 |
| **Total lab hours**      | 30 |

**Attendance**

Attendance is not compulsory, but non-attending students are suggested to contact the lecturer at the start of the course to agree on the modalities of the independent study.

**Prerequisites**

Basic knowledge of software development processes and activities

**Course page**
https://ole.unibz.it/

**Specific educational objectives**

The course belongs to the type "attività formative caratterizzanti – informatica". The course intends to provide the students with an in-depth understanding of the unique characteristics of software and software projects, and equip them with adequate mentality and knowledge to manage software projects effectively.

**Lecturer**
Xiaofeng Wang

**Contact**
Piazza Domenicani 3, Office 1.12, xiaofeng.wang@unibz.it, +39 0471 016181

**Office hours**
During the lecture time span, Fridays 13:00 - 15:00, arrange beforehand by email.

**List of topics**

- Project Planning
- Team Building and Management
- Competitive Bidding and Client Interaction
- Risk Analysis and Management
- Quality Assurance - Monitoring and Evaluation
- Budgeting and Cost Control

**Teaching format**

Frontal lectures and team projects

**Learning outcomes**

Knowledge and understanding:

- D1.18 - Understand the interdisciplinary approach to IT projects that takes into account technical foundations,
business needs, social and dynamic aspects and the regulatory framework.

Applying knowledge and understanding:
- D2.3 - Ability to analyse business problems and to develop proposals for solutions with the help of IT tools.
- D2.4 - Ability to formalise and to analyse procedures and operational processes, to recognise and use optimisation potentials.
- D2.5 - Selective skills for the introduction, adaptation and maintenance of standard operating software and other IT solutions.
- D2.10 - IT infrastructure and project management capabilities.
- D2.18 - Know how to communicate with the client in written and oral form on a professional level in English, Italian and German.

Making judgements
- D3.2 - Be able to work independently according to your level of knowledge and understanding, also taking responsibility for development projects or IT consulting.

Communication skills
- D4.4 - Ability to structure and prepare technical documentation.
- D4.5 - Ability to collaborate in interdisciplinary teams to achieve IT objectives.

Learning skills
- D5.2 - Learning ability to carry out strategic and IT project activities in corporate communities, also distributed.
- D5.3 - Ability to follow rapid technological developments and to learn about innovative aspects of the latest generation of information technology and systems.

**Assessment**

**Exam type for regularly attending students:**
- Project work (50% of the final mark): a good demonstration of applying various software project management concepts and techniques taught in the course (team score);
- Written exam (50% of the final mark): to test the understanding of theories and knowledge application skills, and verification of project results (individual score).

Note: Positive project result is necessary to attend the written exam. Both parts of the results must be positive to pass the exam. In case of a positive mark, the project will count for all 3 regular exam sessions.

**Exam type for non-attending students:**
- Written report on a piece of research related to software project management (agreed upon with the lecturer at the beginning of the course) (70% of the final mark);
Oral exam to test the understanding of theories and verification of written report (30% of the final mark).

Note: Positive written result is necessary to attend the oral exam. Both parts of the results must be positive to pass the exam. In case of a positive mark, the written result will count for all 3 regular exam sessions.

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<tr>
<th>Assessment language</th>
<th>English</th>
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<tr>
<td>Assessment Typology</td>
<td>Monocratic</td>
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**Evaluation criteria and criteria for awarding marks**

**For regularly attending students:**

Evaluation criteria for project work:
- effective application of software project management concepts and techniques
- good teamwork
- good quality of project output

Evaluation criteria for written exam:
- ability to elaborate, summarize, evaluate, and make connections between various topics
- clarity of answers

**For non-attending students:**

Evaluation criteria for written report:
- good understanding of the literature
- clarity of the study method
- convincing research results

Evaluation criteria for oral exam:
- ability to elaborate, summarize, evaluate, and make connections between various topics
- clarity of answers

**Required readings**
- Highsmith, Jim. Agile Project Management: creating innovative products, 2004

Subject Librarian: David Gebhardi, David.Gebhardi@unibz.it

**Supplementary readings**
| **Software used** | Based on types of projects, decided by project teams  
Communicate needed software and technical requirements in advance to cs-tech@inf.unibz.it |