



COURSE: Information Systems	
ACADEMIC YEAR: 2018/2019	
TYPE OF EDUCATIONAL ACTIVITY: Basic	
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Language: Italian	

ECTS: 6	n. of hours: 48	Campus: Potenza	Semester: 2 <sup>nd</sup>
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#### EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

##### Knowledge and Understanding:

Issues in the development of information systems to support business processes in organizations. Languages to model processes and organizations. Classification of information systems. Technologies to implement information systems. Methods to evaluate costs and benefits of information systems.

##### Capability to Apply Knowledge and Comprehension:

Ability to formalize and analyze a business process in terms of activities, roles and responsibilities, information.  
Ability to evaluate an information system in terms of costs, performance, effectiveness and efficiency.

#### PRE-REQUIREMENTS

Knowledge of procedural and object-oriented programming, databases, and networks.

#### SYLLABUS

1. Introduction. Organizations, resources, processes, and organizational structures. Classification of processes, hierarchical levels, and decisions.
2. Modeling and analysis of processes and organizations. Unified Modeling Language (specifically activity diagram) and Business Process Reengineering. Evaluation of costs and benefits.
3. Classes of information systems. Enterprise Resource Planning and Customer Relationship Management.
4. Agile methodologies for software development. Extreme Programming and Test Driven Development.

#### TEACHING METHODS

Frontal Lessons and classwork for a total of 48 hours. Students will be also asked to carry out homework.

#### EVALUATION METHODS

A written exam plus an oral one. When evaluating students, homework and classwork will be taken into account.

#### TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Object Oriented Software Engineering Using UML Patterns and Java.  
Digital material will be available for the students on Moodle.

#### INTERACTION WITH STUDENTS

In person, while office hours (to make appointments, <https://simoneromano.youcanbook.me>), or by email. The lecturer will also use Moodle to share files and to communicate information to the students (e.g., forum and so on).

#### EXAMINATION SESSIONS (FORECAST)<sup>1</sup>

05/02/2019; 07/05/2019; 09/07/2019; 24/09/2019; 17/12/2019

SEMINARS BY EXTERNAL EXPERTS YES  NO

#### FURTHER INFORMATION

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