



COURSE: Advance Software Engineering			
ACADEMIC YEAR: 2017/2018			
TYPE OF EDUCATIONAL ACTIVITY: Basic			
TEACHER: Giuseppe Scanniello			
e-mail: giuseppe.scanniello@unibas.it		web: http://www2.unibas.it/gscanniello/	
phone: 0971 205881		mobile (optional):	
Language: Italian			
ECTS: 6	n. of hours: 48	Campus: Potenza Dept./School: Engineering School Program:	Semester: second

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, data bases, and networks.

SYLLABUS

1. Introduction. Organizations, resources, processes. Processes and organizational structures. Classification of processes, hierarchical levels, decisions.
2. Modeling and analysis of processes and organizations. UML (specifically activity diagram), Business Process Reengineering, Evaluation of costs and benefits.
3. Classes of information systems. Enterprise Resource Planning, Customer Relationship Management

TEACHING METHODS

Frontal Lessons and class works for a total of 48.
Students will be also asked to carry out home works and class work.

EVALUATION METHODS

To verify the acquired knowledge, there will be written and oral exams.
Homeworks and class work will be also assessed to get a full evaluation of the students.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Object Oriented Software Engineering Using UML Patterns and Java;
C. Wholin et al., Experimentation in Software Engineering;
Digital material will be available for the students on Moodle

INTERACTION WITH STUDENTS

In person, while office hours, by email or instant messaging. The lecturer will also use the e-learning platform to share files and to communicate information to the student (e.g., forum and so on).

EXAMINATION SESSIONS (FORECAST)¹

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



Università degli Studi della Basilicata
Scuola di Ingegneria

01-02-2018 27-02-2018 02-07-2018 24-07-2018 04-09-2018 25-09-2018

SEMINARS BY EXTERNAL EXPERTS YES X NO

FURTHER INFORMATION

