

**COURSE DESCRIPTION FORM**

**Academic Unit:** DEPARTMENT OF INFORMATICS

**Department:** Choose

**Laboratory/Reading-Room/Clinic:** PROGRAMMING LANGUAGES AND SOFTWARE  
ENGINEERING LAB

**Course Title:** Enterprise Information Systems

**Course Code:** IM101

**Type of the Course:** Directional (Direction)

Background / General Knowledge

Scientific Area

Skills Development (i.e. laboratory, new technologies)

Lectures

Seminars

Laboratory Work

Fieldwork

Project (ie bibliographical case study)

Tutorial

Internship

Clinical Practice

Total Hours  
3/week

**Cycle / Level of the Course:** 2nd / Postgraduate

**Study Year:** 1o

**Study Semester:** 2o

**Credits (ECTS):** 6

**Course Leader:** I. STAMELOS

**Teaching Staff:** I. STAMELOS

**Teaching Assistants:**

## Course Objectives and Outcomes:

a. Describe course objectives / outcomes and competences (knowledge & skills): Student studies basic concepts and principles of Information Systems. He is informed on the structure and organization of modern enterprises (including public sector agencies) and he learns how business processes define the ways businesses are run. Then he learns the various types of IS (ERP, CRM, HRM, ...) and understands the ways ISs support business processes and their significance for the enterprise. Emphasis is given to IS development, assessment and integration issues and to Business Process Reengineering (BPR) projects. Next, student is informed on F/OSS systems (Free/Open Source Software) and the IS solutions offered by this kind of community based software development. Through various exercises students are training on solving various IS issues. By studying and presenting to the class white papers published on selected web sites (Technology Evaluation Center, Sourceforge, etc.) students become familiar with recent advancements in this field. Eventually, by developing a detailed IS assessment and selection report for a realistic IT business sector, students are trained on one of the fundamental practical problems in software project management.

b. Categorize course objectives (select if applicable):

### Cognitive Domain:

- Remembering
- Understanding
- Applying
- Analysing
- Evaluating
- Creating

### Affective Domain:

- Reception
- Response
- Valuing
- Organization
- Characterization (internalizing values)

### Psychomotor Domain (Skills):

- Imitation
- Manipulation
- Precision
- Articulation
- Naturalization

### Prerequisites:

Programming and data bases

### Course Content:

Introduction to IS, definition, role and significance of IS within modern enterprises, data life cycle, Business Process Reengineering, Free/Open Source Software, student white paper presentations, presentation of commercial IS products by companies, tools and approaches for identifying, assessing and selecting IS solutions.

### Recommended Reading:

**a. Recommended bibliography & material**

- (1) Management Information Systems, Laudon&Laudon, Prentice Hall
- (2) Web sites (TEC, Sourceforge, ...)

**b. Additional bibliography:**

**Teaching Methods:**

- |                                     |                                   |            |
|-------------------------------------|-----------------------------------|------------|
| <input checked="" type="checkbox"/> | Attending lectures                | Individual |
| <input type="checkbox"/>            | Practising laboratory skills      | Choose     |
| <input type="checkbox"/>            | Demonstration (i.e.for fieldwork) | Choose     |
| <input checked="" type="checkbox"/> | Writing papers                    | Choose     |
| <input checked="" type="checkbox"/> | Study for a project               | Choose     |
| <input checked="" type="checkbox"/> | Reading books and papers          | Choose     |
| <input checked="" type="checkbox"/> | Critisizing/analyzing others'work | Choose     |
| <input type="checkbox"/>            | Clinical Pracice                  | Choose     |
| <input type="checkbox"/>            |                                   | Choose     |

**Assessment:**

- a. Description of the procedure:** 50% final written exams, 30% project, 10% tests, 10% classroom presentations

(i.e. what is consider as important and its weighting. Are there explicitly defined criteria and what are they or where could be found).

**b. Assessment methods:**

- |                                     |                                 |        |
|-------------------------------------|---------------------------------|--------|
| <input type="checkbox"/>            | Multiple Choice Test            | Choose |
| <input checked="" type="checkbox"/> | Written Exams                   | Choose |
| <input checked="" type="checkbox"/> | Written Assignment              | Choose |
| <input type="checkbox"/>            | Report for a Laboratory         | Choose |
| <input checked="" type="checkbox"/> | Report for a Fieldwork          | Choose |
| <input type="checkbox"/>            | Oral Exams                      | Choose |
| <input checked="" type="checkbox"/> | Oral Presentation               | Choose |
| <input checked="" type="checkbox"/> | Proodos                         | Choose |
| <input type="checkbox"/>            | Continuous Evaluation           | Choose |
| <input type="checkbox"/>            | Computer Assisted Assessment    | Choose |
| <input type="checkbox"/>            | Clinical Examination of Patient | Choose |
| <input type="checkbox"/>            |                                 | Choose |

**Use of ICT in Course Teaching:**



**Digital Course Content:**

- |                          |                       |            |
|--------------------------|-----------------------|------------|
| <input type="checkbox"/> | Blackboard Hyperlink: |            |
| <input type="checkbox"/> | eClass                | Hyperlink: |
| <input type="checkbox"/> | Sakai                 | Hyperlink: |



<http://pileas.csd.auth.gr>

Hyperlink:

**Language of Instruction:**



Greek



English



French



German



Italian



**General Competences**

The course students, additional to basic general knowledge in the field of study, are educated to:

- Apply knowledge in practice.
- Retrieve, analyse and synthesise data and information, with the use of necessary technologies.
- Adapt to new situations.
- Make decisions.
- Work autonomously.
- Work in teams.
- Work in an international context.
- Work in an interdisciplinary team.
- Generate new research ideas.
- Design and manage projects.
- Appreciate diversity and multiculturality.
- Respect natural environment.
- Demonstrate social, professional and ethical commitment and sensitivity to gender issues.
- Be critical and self-critical.
- Advance free, creative and causative thinking.

**National Qualifications Framework**

Select the levels of learning outcomes that are fulfilled by this course, according to the classification of NQF.

**Knowledge**

- Level 8
- Level 7
- Level 6
- Level 5
- Level 4
- Level 3
- Level 2
- Level 1

**Competence**

- Level 8
- Level 7
- Level 6
- Level 5
- Level 4
- Level 3
- Level 2
- Level 1

**Skills**

- Level 8
- Level 7
- Level 6
- Level 5
- Level 4
- Level 3
- Level 2
- Level 1