



IPL

escola superior de tecnologia e gestão
instituto politécnico de leiria

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Subject Program

1. Subject Identification

Course : [EID] - Engenharia Informática - B

Course Type : 1st Cycle

Subject : Sistemas Multimédia

Mandatory Subject : Sim

Scientific Area : EI-TIC

ECTS : 6.00

Year : 2 **Semester :** S2

School Year : 2007/08

Prerequisites : No

2. Teachers

Head Teacher : ANTÓNIO CARLOS ALVES URBANO

3. Work Time

Contact Hours

0.00

Self Work Hours 0.00

Total Hours 0.00

4. Approval

Approved in Cientific Council in : 2009-01-22

5. Objectives

General Objectives

The main purpose of this course is to give insight into the technologies and methodologies involved in the development, integration and distribution of multimedia.

Specific Objectives

Transversal Objectives

6. Description of the Course

1. Introduction
 - a. Multimedia components
 - b. Project planning
2. Acquisition, production and editing of multimedia material
 - a. Images
 - b. Video
 - c. Audio
 - d. Animation
3. Multimedia integration
 - a. Authoring tools
 - b. Methodologies
4. Computer Graphics Concepts

7. Methodology

- Theoretical Classes:
 - acquisition of concepts and theoretical knowledge
- Practical and Laboratorial Classes:
 - practical application of concepts through usage of tools and algorithms development
 - last classes are reserved for project support
- Tutorial Guidance:
 - monitoring and support to the implementation of the evaluation components

8. Assessment

- 1st Evaluation Season:
 - 50% written theoretical exam (min 9.5)
 - 45% group project (min 9.5)
 - 5% participation in classes and forum
 - groups of 2
 - presentation and discussion of the project
- Other Evaluation Seasons:
 - 50% written theoretical exam (min 9.5)
 - 50% laboratorial exam (min 9.5)

9. Bibliography

Recomended Bibliography

• Multimédia e Tecnologias Interactivas (2ª ed) FCA - Editora de Informática • Digital Multimedia Nigel Chapman e Jenny Chapman, John Wiley & Sons, Ltd • Multimedia: making it work Tay Vaughan, Osborne/McGraw-Hill • Distributed Multimedia Palmer Agnew e Anne Kellerman, Addison-Wesley Pub Co. • Managing Multimedia Elaine England, Andrew Finney, Addison-Wesley Pub Co.

Advised Bibliography

10. Specific Resources