INFORMATION SYSTEMS MANAGEMENT

Code: 12411

Main Scientific Area: Information Systems

Lecturer: Patrícia Isabel Sousa Trindade Silva Leite

Language of Instruction: Portuguese

Regime: S1

Contact Hours: 30h Total Workload: 50h

ECTS: 3,0

Objectives

This course aims to present the main concepts that support the activity of Information Systems Management (ISM) in the organizations. It is expected that the students are able to understand the context/scope for the planning, developing and deployment of Information Systems (IS), so they should be aware of the need for the IS alignment with the organization business processes. If will be stressed that the technology is not valuable by itself; the technologies are extremely valuable for an organization when they are used help organizations to achieve their goals. This course will introduce the students to the ISM core activities, giving special importance to IS on health reality.

The students will get useful competencies for the ISM; they will get a holistic vision about the deployment of IS in the organizations, will understand the IS scope and importance, and will use tools for its effective management.

Learning Outcomes

At the end of the course, students should be able to:

Justify the need for the Information System (IS) alignment with the organization businesses processes;

Describe the information systems management activities;

Take into account the organization information systems architecture and business goals in the analysis or development of information technology solutions;

Know the state of the art of IS on healthcare.

Course Contents

1. Information Systems (IS):

- Information and Information Technology (IT);

- Organizational IS;

- IS Architecture;

- Health IS;

2. Information Systems Management (ISM):

- ISM activities;

- Change management;

- IT services management;

- IT portfolio management;

- Security management;

3. Information Systems Planning (ISP):

- Introduction to ISP;

- ISP as organizational activity;

- ISP processes, approaches and methods;

4. Information Systems Development (ISD):

- Introduction to ISD;

- ISD activities;

- ISD paradigms;

5. Information Systems Exploitation (ISE):

- Introduction to ISE;

- ISE activities;

Recommended Bibliography

. Silva, M. M., Martins, J. S. (2008). It Governance - A Gestão da Informática, FCA - Editora de Informática;

· Varajão, J. (2005). A Arquitectura da Gestão de Sistemas de Informação, 3.a edição, FCA-Editora Informática;

· Wager, A. K., Lee, F. W., Glaser, J. P. (2009). Health Care Information Systems: A Practical Approach for Health Care Management, 2nd ed., John Wiley Sons

Learning and Teaching Methods

The program of the course introduces the key concepts that allow understanding the scope and context in which information systems management activities are developed. To develop skills in this field, students should be familiarized with the principles and best practices of information systems management. They should know the most important standards and frameworks for the information systems management.

Assessment Methods

Learning outcomes will be assessed through a theoretical component and a practical component. The theoretical component consists of two individual written tests and the practical component consists of the development of a project team. The practical component (PCR) will be held during the lessons. The theoretical component results (TCR) of the arithmetic average of the written test scores or, if the student has not obtained the minimum score in the theoretical component or in the final grade, it corresponds to the exam score. The final grade (FG) is a weighted average calculated according to the expression:

FG = TCR * 40% + PCR * 60%

Approval for the course is subject to obtaining a minimum score of 9.5 (scale from 0 to 20) in the theoretical component and 10.0 in the practical component. The final exam only assesses the theoretical component. In times of examination will only be assessed the theoretical component, keeping, for the calculation of the final grade, the value obtained in the practical component at the frequency of the course.