

INFORMATION SYSTEMS MANAGEMENT

Code: 12411

Main Scientific Area: Information Systems and Artificial Intelligence

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. It 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

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

· Henriques, T. (2019) - Gestão de Sistemas de Informação: Pessoas, Equipas e Mudança Organizacional, FCA Editora Informática; · Henriques, T. (2019) - Gestão de Sistemas de Informação: Frameworks, Modelos e Processos, FCA – Editora Informática; · Rocha, Á. (2010) - Sistemas e Tecnologias de Informação na Saúde, Edições Universidade Fernando Pessoa · Silva, M. M., Martins, J. S. (2008). Introdução aos Sistemas de Informação Organizacionais. Bráulio Alturas. dezembro 2013. Edições Silabo; It Governance - A Gestão da Informática, FCA - Editora de Informática; · Varajão, J. (2005). A Arquitectura da Gestão de Sistemas de Informação, 3a Ed., 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

Classes will consist in the presentation of concepts, discussion of practical examples, and support the implementation of the projects, stimulating students to actively participate in the classes. The learning activities will be scheduled according to the following distribution: The students will develop a project to put in practice the concepts and tools supplied by the course.