

## SYLLABUS DEL CORSO

### Organizzazione dei Sistemi Informativi

2021-3-E4101B025

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#### Learning objectives

The course aims to create the necessary knowledge, under the technical and methodological point of view, to enable a correct approach to the design of an information system, as a key strategic resource to achieve the goals of a business organization.

#### *Knowledge and understanding*

This course will provide knowledge and understanding in relation to:

- Design of information systems for data analysis and decision support
- Identification of data sources of an enterprise information system
- Management of structured and unstructured data

#### *Ability to apply knowledge and understanding*

At the end of the course the students will be able to:

- Use software for analyzing structured and unstructured data
- Use software for representing data
- Interpret data analysis results to support decision-making

The course allows the student to acquire a solid foundation on the theory of information systems and in the application of knowledge management and data analysis techniques to be used in the biostatistic / statistical / demographic context.

## **Contents**

- Application architectures and technological architectures of information systems
- Digital applications and analysis of information system
- Design of information system for data analysis and decision support system
- Data quality

## **Detailed program**

Application architectures and technological architectures of information systems:

- Database management processes
- Distributed architectures, client server, network, Internet and World Wide Web

Digital applications and analysis of information system:

- The application portfolio in the industrial and service companies
- CRM

Design of information system for data analysis and decision support system:

- Design of processes and data modelling
- BPR
- Activities and information analysis

Data quality

## **Prerequisites**

Fairly good skills in learning, writing and speaking are expected, together with a general knowledge about the main technologies and applications of Computer Science.

## **Teaching methods**

The course is delivered in Italian and includes lectures in the classroom.

The lectures are dedicated to the study of the theoretical topics related to the course.

During the Covid-19 emergency period, lessons will take place in completely remote synchronous videotaped

mode.

## **Assessment methods**

During the Covid-19 emergency period, oral exams will only be online. They will be carried out using the WebEx platform and on the e-learning page of the course there will be a public link for access to the examination of possible virtual spectators.

The oral exam is aimed at assessing the theoretical knowledge of the student on the topics of the course. The ability to reason and deepen the issues proposed during the examination and the methodological rigor of their development will be evaluated.

The test is common for both attending students and non-attending students.

## **Textbooks and Reading Materials**

G. Bracchi, C. Francalanci, G. Motta. Sistemi informativi d'impresa. McGraw-Hill, 2010.

Further material (slides and papers on specific topics) is available on the elearning page of the course.

## **Semester**

The course is delivered in the second cycle of the first semester.

## **Teaching language**

Italian

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