BUSINESS ANALYSIS AND IT SOLUTIONS

Prof. Giulio Destri

COURSE AIMS AND INTENDED LEARNING OUTCOMES

Information Technology (IT) has made possible the digital revolution that we are experiencing and in which we will have to live in the coming years. IT not only makes it possible to analyse data to derive information and knowledge on which to base one's decisions, but it has produced tools that permeate our lives and are pillars for the functioning of our society.

In the industrial field, Business Analysis represents the set of activities, knowledge and techniques necessary to identify the business needs of an organisation and determine improvements and solutions to any existing problems. More specifically, the Business Analysis segment focused on the design of IT solutions for business needs (Requirements Engineering) is formed by the set of codified methods, knowledge and processes that convert a business idea to an IT solution for realising it.

The course aims to provide the tools to understand current IT concepts and language and to be able to communicate and interact profitably with any software or IT service providers.

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

* Understand the basic concepts of modern IT and Business Analysis
* Identify the correct methodology to use to transform an idea into a project
* Understand the importance of effective communication
* Recognise and evaluate the functional contents of an IT project

Specific disciplinary knowledge will enable students to:

* Appropriately summarise the set of requirements of a solution using dedicated languages and graphical tools
* Build models of the business reality to help understand the relationships between the elements of this reality
* Compare alternative business analysis tools and identify the most suitable for the situation under consideration
* Build the functional blueprint of an IT solution for a business problem
* Learn the basics to operate within the various requirements and translate them into a functional IT solution project

COURSE CONTENT

The course covers the following topics:

* The context of modern IT in our society
* Information systems and organisations
* Architectures and software components
* IT services
* IT systems, structure and solutions
* Digital information and databases
* Conceptual models, entities and classes
* The concept of change management and project
* From the idea to the IT solution
* IT Project Management
* The main phases of an IT project
* Business Analysis and Requirements Engineering
* IT solution applications

READING LIST

Giulio Destri

Sistemi Informativi – Il pilastro digitale di servizi ed organizzazioni

Ed. FrancoAngeli, 2013

Stefano Berti

Business Analysis ed analisi per i Sistemi Informativi

Ed. La Biblioteca di Ferentino (Scuola formazione Gruppo Engineering), 2016

Available on Academia.EDU

Stefano Berti

Business Analysis e competenze digitali

Academia.EDU, 2019

Lecturers' lecture notes.

The most relevant chapters and paragraphs will be specified in the detailed programme visible on the course page in Blackboard.

The materials provided by the lecturer during lectures will also be an integral part and will be made available from time to time on the Blackboard platform.

TEACHING METHOD

Frontal lectures in the classroom and exercises in the computer room.

ASSESSMENT METHOD AND CRITERIA

The exam is aimed at evaluating students' reasoning and knowledge of the topics covered during the course.

The exam takes place through the official e-learning platform provided by the university.

The exam consists of a group Project Work to be carried out within the context of a business idea, and a supplementary oral.

NOTES AND PREREQUISITES

Students should possess basic knowledge of Information Systems, Databases and software programming.

To facilitate understanding by students with a limited IT background, specific aids and exercises aimed at aligning initial knowledge will be provided at the beginning of the course.

Information on office hours available on the teacher's personal page at <http://docenti.unicatt.it/>.