SYLLABUS DEL CORSO

Strumenti e Applicazioni del Web

2021-1-F9201P025

Aims

The main teaching goals of this course are both practical/application oriented and theoretic/conceptual.

Knowledge and understanding:

- Basic concepts related to computer networks and protocols
- Basic concepts related to web standards and languages
- Web browsers, role and history
- Most diffused web applications and services, social networks
- Current tools for online content creation (blogs, content management systems, automation systems, data analysis and infographics editing systems)

Applying knowledge and understanding

- Usage of most diffused web applications and services
- Usage of WordPress and most relevant plugins for the creation of a thematic blog
- Usage (at basic level) of automation systems, data analysis and infographics editing systems

Contents

This course presents an overview of the evolution of the tools and applications of the Web, since its creation and until the most recent developments. The technological aspects will be discussed at a basic level, to support a more conscious usage of the web tools and applications, whereas functional aspects and the market dynamics of the web ecosystem will be more central. Particular attention will be paid to the most diffused social media and the recent developments of the "mobile web".

Detailed program

- Basic concepts related to computer networks and protocols
- Basic concepts related to web standards and languages
- Web browsers, role and history
- Most diffused web applications and services, social networks
- Current tools for online content creation (blog, content management systems)
- Recent developments

Prerequisites

The course assumes that the students have a certain familiarity with main web access tools (browsers and search engines). It is also useful some level of experience with the most diffused social media (Facebook, Twitter, Youtube).

Teaching form

Theoretical and methodological aspects will be presented along with practical examples and case studies, employed to exemplify the introduced topics. The course has a partly laboratory approach: students are asked to experiment several online applications, among the most diffused, and to build a personal presence on different social media.

The 2019/20 edition was held "in presence"; the 2020/21 edition will be held mostly from remote (recorded lessons and some "live" lessons, held via teleconference systems, and however also recorded), any change will depend on the state of the COVID-19 outbreak.

Textbook and teaching resource

Slides of the frontal lessons, including links to additional suggested material (papers, articles, blogs).

Semester

First semester

Assessment method

The final evaluation is based on an individual written examination and the group implementation of a thematic blog (whose conception, topics and initial graphical structure will be publicly presented). The evaluation of this project is

the same for the group members with the exception of one or more specific contents to be agreed upon (e.g. an individual "featured" post, of greater length than the average, a small web application or an automation mechanism used in the site, a questionnaire and the analysis of gathered data, a series of infographics) that represent an individual contribution to the overall grade.

Office hours

Wednesday from 9:30 until 11:30 or other time, always by appointment, potentially also via teleconferencing systems.