

Master of Science in Computer Science

a.a. 2017-18

year	code	course name	ECTS	type	semester	educational activity type	ECTS	hours	faculty
2	F1801Q114	Ubiquitous and Context Aware Computing	6	elective	Primo Semestre	lecture	3	24	Agostini Alessandra
						laboratory	3	36	Agostini Alessandra

Professors' CV: <http://www.unimib.it/go/176181440>

Contents The course introduces students to the main principles of the Ubiquitous Computing research area and, in particular, those themes related to the definition, modeling, and use of contextual information in developing ubiquitous/pervasive and context-aware applications.

An overview of the various accepted meaning of context and context-awareness introduces the course; then the course focuses on the definition and use of that contextual information asking for complex representations (e.g., user related information).

Textbooks No textbooks provided. A collection of articles, videos and links will be made available through the site of the course.

Course objectives The main goal of the course is teaching students how to design --in multidisciplinary teams-- ubiquitous and pervasive systems supporting groups and communities.

Prerequisites A good knowledge of the basis of ICT and web technology.

Teaching methods Social/participative learning

Learning assessments Group meetings to: analyze and discuss students' homework; in-depth analysis of the technology related to students' homework; and group project.

Extended Syllabus

1 Introduction to Ubiquitous Computing:

- Computing era
- Invisible & calm technology
- Dwelling with computers

2 Overview of Ubiquitous Computing systems, applications, & apps. Related research areas.

3 Context-aware computing: definitions and selected researches.

4 Context modeling: main approaches and selected examples.

5 Interaction Design: main principles

6 In-depth analysis of systems and applications by domain or by services.

7 Private and public group meetings to review students' home works and projects.