UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Informatica Generale - 2

2425-2-E1802M033-T2

Learning objectives

The course defines a transversal path that aims to provide basic knowledge for variou
s topics in the ict field.

Contents

Basic concepts of information and computer science, computer operation, introduction
to networks, it security.

Detailed program

1. Introduction to computer science
2. Information representation
3. Software
4. System architecture
5. Processor
6. Boolean algebra
7. Algorithms
8. Networks
9. It security
10. Digital signature
11. Multimedia information representation
12. Exercises

Prerequisites

Basic knowledge of mathematics and English language.
Verify the requirement to pass prerequisite courses, if required by the academic prog ram. Otherwise, it will not be allowed by the systems and academic rules to take the exam

Teaching methods

Traditional lecture.

The lessons are delivered in person starting from the second semester of 24-25, accor ding to the schedule defined by the university.

Study material will be present on the e-learning platform.

However, attendance is not mandatory.

Assessment methods

The exams will be held in person. It is unlikely that a computer lab will be available, so students are asked to bring their own laptop or tablet that can connect to the university's Wi-Fi. Smartphones are not suitable due to the small screen and difficulty in navigating between questions.

A multiple-choice questionnaire will be implemented using a dedicated platform, a website called Questbase. It is a timed test. The platform allows traffic monitoring. Students who are regularly registered for the exam will receive written confirmation from the teacher with some instructions related to the test and the link to access the platform. No installation is required by the student, who still has control of the device.

During the test, students will receive an access password. It is a website, and it should be treated as such. The management of the test, moving from one question to another, and vertical scrolling are at the student's discretion. The timed test lasts 38 minutes in the form of a multiple-choice questionnaire. 30 questions, 1 point for each correct answer, 0 for all other cases. The questions and answers are randomly drawn from a predefined pool, and the teacher does not know them in advance. The test is strictly individual.

The results are consequential to the submission of the test. Press the Submit button at the bottom of the page to transmit the answers and view corrections and results. If time does not allow submission, the test will still be considered valid and evaluated by the system for what has been done up to that point.

The website requires the entry of name, surname, and student number immediately after entering the password. As always, it is useful to have an identification document handy.

There may be small, simple exercises: base conversion, Boolean algebra, algorithms, cryptography, IP. As per the material available on the e-learning platform. It is allowed to use a pen and paper. No demanding calculations are expected, and they are limited to the provided options.

No software is required other than the browser. Overall, it is always advisable to have different browsers available on your device.

No assessment tests are scheduled outside the dates set by the university.

Textbooks and Reading Materials

The teacher uploads study materials and video recordings to the e-learning platform. No reference texts are indicated. The student, if they wish, can use any information source.

Semester

Second semester. According to the schedule defined by the university.

Teaching language

Italian.

Sustainable Development Goals

NO POVERTY