

**Licentiate in Computer Sciences – 6 years**  
**High School and University / College Teacher of Computer Sciences – 5 ½ years**  
**University Computer Analyst – 4 years**

### **Objective**

To provide sound grounding so that graduates can perform activities that require designing, planning, managing and transforming different types of computerized information systems, and train them to be prepared to adapt to a continually changing field.

A basic and solid training is offered, which provides the skill for working in research projects and allows students to continue developing their studies through post-graduate courses or PhD's.

### **Contents**

The syllabus is composed of a basic cycle of 3 years, after which students obtain the degree of "University Computer Analyst". This cycle includes: subjects which have logics and mathematics as a basis; subjects that provide a solid training in programming techniques (including data structure, algorithms and languages); and subjects that study the indispensable and updated knowledge on computers architecture, operative systems, and analysis and design of systems, networks and communication. It also includes compulsory and optional subjects of the non-numeric methods area; (e.g. methods used in artificial intelligence problems, databases, etc.) of the numeric methods area, which present an outlook on different ways of solving mathematical problems in computers; and of computing theory.

In order to obtain the teaching degree, students have to pass 10 subjects from the licentiate programme and 7 subjects on pedagogical training.

### **Job Opportunities**

Graduates are qualified to work in official and public research areas. There is a vast working field which offers great mobility.