Bachelor’s Degree Program in Information and Communication Technologies

2014
Outline

• Introduction
• Description of the Bachelor’s Degree Program
• Courses Offered
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Introduction

• The Bachelor’s Degree Program in Information and Communication Technologies is based in three main fields:
  • Digital Technologies
  • Digital Business
  • Education and Digital Culture
Introduction

• In the area of **Information and Communication Technologies (ICT)** a phenomenon that is increasingly present is the **digital convergence**

• **Digital convergence** is responsible for the sharing of channels with different media and/or applications, as well as the sharing of terminals and applications which become increasingly difficult to distinguish what is telecommunication, television, computer system, information system and so on

• **Professionals in the field of ICT** are in need of a set of skills ranging from knowledge of software and hardware to the humanities and applied social sciences knowledge
Introduction

• The Bachelor’s Degree in Information and Communication Technologies objective is to promote the training of human resources with skills to use and model solutions with Information and Communication Technologies (ICT) in economic, social, educational, and cultural environments
Description

- **Course duration**: 3 years (6 semesters)

- **The ICT program is organized** according to the following activities:
  
  - **Mandatory attendance Disciplines**
  
  - **Elective Disciplines**
  
  - **Additional activities**
  
  - **Mandatory Internships**
Courses

• 1st semester:
  • Innovation and Creativity in the Knowledge Era
  • Introduction to Economics
  • Introduction to Computing
  • Mathematical Foundations for Computer Science
  • Elaboration of Academic Works
  • Computer Programming I
Courses

• 2nd semester:
  • Computers in Education I
  • Introduction to Management
  • Organization and Computer Architecture I
  • Principles of Marketing
  • Multimedia Systems I
  • Computer Programming II
Courses

- 3rd semester:
  - Distance Education I
  - Principles and Quality Tools
  - Software Engineering I
  - Data Structures I
  - Computer Networks I
  - Object Oriented Programming
Courses

• 4th semester:
  • Multimedia Systems II
  • Computer Networks II
  • Project Management
  • Database I
  • Software Engineering II
  • Operating Systems
Courses

• 5th semester:
  • Virtual Learning Environments
  • Distributed Computing
  • Entrepreneurship
  • Artificial Intelligence
  • Human-Computer Interface
  • Database II
  • Mandatory Internship I
Courses

• **6th semester:**
  - Elective Discipline I
  - Elective Discipline II
  - Elective Discipline III
  - Elective Discipline IV
  - Elective Discipline V
  - Mandatory Internship II
  - Final Project in Information and Communication Technologies
Faculty

• All faculty members have doctoral degree

• Professors have training in different fields of knowledge such as:
  • Computer Science
  • Business Administration
  • Psychology
  • Pedagogy
  • Production Engineering
  • Electrical Engineering
  • Automation and Control Engineering
International students are welcome!