

UNIVERSIDADE FEDERAL DE SANTA CATARINA  
CAMPUS ARARANGUÁ  
BRAZIL

Bachelor's Degree Program in  
Information and Communication  
Technologies

2014

# Outline

- Introduction
- Description of the Bachelor's Degree Program
- Courses Offered
- Faculty Members



# 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

- **1<sup>st</sup> 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

- **2<sup>nd</sup> semester:**
  - Computers in Education I
  - Introduction to Management
  - Organization and Computer Architecture I
  - Principles of Marketing
  - Multimedia Systems I
  - Computer Programming II





# Courses

- **3<sup>rd</sup> semester:**
  - Distance Education I
  - Principles and Quality Tools
  - Software Engineering I
  - Data Structures I
  - Computer Networks I
  - Object Oriented Programming



# Courses

- **4<sup>th</sup> semester:**
  - Multimedia Systems II
  - Computer Networks II
  - Project Management
  - Database I
  - Software Engineering II
  - Operating Systems



# Courses

- **5<sup>th</sup> semester:**
  - Virtual Learning Environments
  - Distributed Computing
  - Entrepreneurship
  - Artificial Intelligence
  - Human-Computer Interface
  - Database II
  - Mandatory Internship I



# Courses

- **6<sup>th</sup> 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 !



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