

## **Specialized Didactics of Subject Areas**

### **COURSE CONTENT:**

#### **1. Didactics of Informatics**

##### Topics

1. The Field of Informatics Didactics
  - Informatics and Information and Communication Technologies (ICT) curricula
  - Didactic Transformation
2. Didactics of Programming
  - Knowledge and Skills in Programming
  - Misconceptions and Challenges
3. Didactics of Programming (Continued)
  - Didactic Approaches
  - Designing Learning Activities
4. Educational Programming Environments for Primary and Secondary Education
5. Concept Mapping in Informatics
6. Didactics of Informatics Concepts
  - Text comprehension (models and question design)
  - Analogies and simulations in teaching Informatics concepts
7. Educational Games in Informatics
8. Forms and Tools of Assessment
9. Web 2.0 Tools for Supporting ICT Activities