

## **Second cycle degrees (MSc) in Computer Science are awarded to students who**

### **Knowledge and understanding:**

On top of the capabilities mentioned for the BSc students MSc students have demonstrated/ acquired

- increased depth of knowledge to the forefront of established theory and practice in essential areas of computer science and its areas of application
- a specialization with regards to at least one sub-discipline of computer science leading to the forefront of research

### **Applying knowledge and understanding:**

On top of the capabilities mentioned for the BSc students MSc students can apply their knowledge and understanding, and problem solving abilities:

- in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study;
- developing, applying, and/or extend ideas/methods/principles/solutions, often within a research context

### **Making judgements:**

On top of the capabilities mentioned for the BSc students MSc students have the ability to:

- integrate knowledge and handle complexity, and formulate judgements with partial or limited information, but that may include reflecting on social and ethical responsibilities linked to the application of their knowledge and judgements
- actively discuss and defend professional, economic, social, environmental, moral and ethical decisions involved in the sustainable exploitation of computer technology under the guidance of appropriate professional, ethical and legal practices

### **Communication skills:**

On top of the capabilities mentioned for the BSc students MSc students can

- communicate and justify the knowledge and rationale underpinning their conclusions, to specialist and non-specialist audiences clearly and unambiguously
- present and justify their results in the scientific community

### **Learning skills:**

On top of the capabilities mentioned for the BSc students MSc students can

- independently (self-directed or autonomous) acquire new knowledge, methods, and techniques from various sources (including the research literature)
- define own masterpiece work (thesis) using academic methods and literature