

On completion of this program, students will be able to:

Knowledge and understanding:

- Demonstrate advanced skills of computing and mathematics appropriate to the discipline
- Describe a new algorithm to solve a specific problem
- Identify relevant literature and results in a research paper in Computer Science
- Assess the validity of claims found in relevant literature in Computer Science

Applying knowledge and understanding:

- Analyze a problem in new or unfamiliar environments
- Provide an appropriate solution in new or unfamiliar environments
- Design an entire process or a component of a large system
- Implement a process (or a set of procedures) to be integrated in a larger system
- Evaluate a computer-based system
- Use current techniques, and tools necessary for computing practice

Making judgements:

- Work in (multidisciplinary) teams to accomplish a common goal respecting the constraints of time, quality, and effectiveness
- Evaluate a solution for computer-based systems
- Compare the efficiency and effectiveness of different solutions

Communication skills:

- Communicate knowledge and conclusions to specialist and non-specialist audiences in plain English (orally and in writing)
- Present advantages and drawbacks of a computer-based solution
- Understand computer-based requirements specified by humans

Learning skills:

- Learn new algorithms in an autonomous way
- Evaluate efficiency and effectiveness of new solutions in a self-directed manner
- Study in an autonomous way