



UNIVERSITATEA DIN CRAIOVA

Facultatea de Automatică, Calculatoare și Electronică

Departamentul de Calculatoare și Tehnologia Informației

Examen de diplomă, promoția 2022

TEMATICA propusă pentru Proba I

Evaluarea cunoștințelor fundamentale și de specialitate

Programul de studiu: "Calculatoare în limba engleză"

domeniul: " Calculatoare și Tehnologia Informației"

- 1. Mastering fundamental scientific, engineering and IT concepts:**
 - a. Computer Graphics
 - b. Data Structures
 - c. Operating Systems
 - d. Concurrent and Distributed Systems
 - e. Formal Languages and Automata
 - f. Modeling and Simulation
- 2. Design skills in the fields of hardware, software, and communications:**
 - a. Computer Programming - Programming Techniques
 - b. Logical Design I
 - c. Logical Design II
 - d. Computer Systems Architecture
 - e. Object Oriented Design
- 3. Problem solving using scientific and computer engineering tools:**
 - a. Introduction to Information technology
 - b. Computer Programming
 - c. Object Oriented Programming
 - d. Databases
 - e. Communication Protocols
 - f. Microprocessor Design
- 4. Improving the performances of the hardware, software, and communication components:**
 - a. Computer Networks
 - b. Parallel and Distributed Algorithms
 - c. Data Security
- 5. Design, lifecycle management, integration and protection of hardware, software, and communication systems:**
 - a. Computer Structure and Organization

- b. Software Engineering
- c. Project Management

6. Design of intelligent systems:

- a. Artificial Intelligence
- b. Web Application Design
- c. E-Commerce
- d. Mobile Computing