**Diploma Supplement for the Computer Engineering Department**

Graduates of the Computer Engineering Department will be able to:

1. Work professionally in any of the following fields: software systems, computer-based systems, cyber, digital electronics, development of chips and Very Large-Scale Integration (VLSI), machine learning, artificial intelligence, and/or digital signal processing
2. Identify, characterize, and solve engineering and technological problems using relevant knowledge from the fields of mathematics, engineering, and technology
3. Perform standard measurements of quantitative parameters using various measurement tools; plan and carry out experiments, assess the experiment results, and draw conclusions; apply experiment results to improve technological processes and systems
4. Apply the appropriate statistical methods, conversions, discrete mathematics, or differential equations needed to analyze and manage electronic systems
5. Analyze problems in software-intensive systems and develop software in a variety of environments and operating systems, server/client systems, real-time systems and computer-embedded systems
6. Analyze, design, implement, and execute integrated hardware-software systems
7. Use machine learning algorithms and artificial intelligence to explore, identify, and analyze data patterns
8. Work effectively as a member or leader of a technical team
9. Communicate in writing and orally in technical and non-technical environments
10. Learn independently and recognize the importance of ongoing learning for professional development