The LEARNING OUTCOMES were outlined as follows:

COMMON COMPETENCIES

1. **Teamwork**
   - To be able work as member of a group work in the development of projects practically and responsibly.
2. **Information Literacy In Life-Long Learning**
   - To be able to manage the acquisition, structuring, analysis and visualization of data and information in the area of informatics engineering, and critically assess the results of this effort.
3. **Fundamental Skills**
   - To apply the acquired knowledge and capacity for solving problems in new or unknown environments within broader (or multidisciplinary) contexts related to their area of study.
   - To integrate knowledges and handle the complexity of making judgments based on information which, being incomplete or limited, includes considerations on social and ethical responsibilities linked to the application of their knowledge and judgments.
   - To communicate their conclusions, and the knowledge and rationale underpinning these, to both skilled and unskilled public in a clear and unambiguous way.
   - Possession of the learning skills that enable the students to continue studying in a way that will be mainly self-directed or autonomous.
4. **Higher Order Thinking Skills**
   - To think critically, logically and analytically. To solve problems in their area of study.to create and use models that reflect real situations. To design and implement simple experiments, and analyze and interpret their results. To be able to analyze, synthesize and evaluate.

COMMON TECHNICAL COMPETENCIES

5. **Technical Competencies**
   - To plan, calculate and design products, processes and facilities in all areas of Computer Science.
   - To model, calculate and simulate in IT companies, particularly in research, development and innovation tasks in all areas related to Information Systems
   - To manage in general, technical and research projects, to participate actively in the development and innovation in companies and technology centers in the area of Computer Science.
   - To apply, integrate acquired knowledge and to solve problems into new settings inside broad and multidisciplinary contexts.
   - To understand and apply profession related ethical responsibility in IT related facilities.
   - To employ projects management principles with the consideration of regulations and standards.

SPECIALIZED COMPETENCIES

6. **Competencies related to specialized fields**
   - To integrate technologies, applications, services and systems of IS, in general and in broader and multidisciplinary contexts.
   - To do strategic planning, development, direction, coordination, and technical and economic management in ICT related to: Systems, applications, services, networks,

infrastructure or computer facilities and software development centers or factories, respecting the implementation of quality and environmental criteria in multidisciplinary working environments.

- To comprehend models, problems and algorithms related to computer networks and to design and evaluate algorithms, protocols and systems that process the complexity of computer communications networks.
- To understand models, problems and tools to analyze, design and evaluate computer networks and software systems.
- To manage research, development and innovation projects in companies and technology centers with sense of responsibility and with the consideration of quality of services and products.

SPECIFIC COMPETENCIES

7. Field Specific Competencies

- To model, plan, state IT system architecture, implement, manage, operate, administrate and maintain applications, networks, systems and services.
- To analyze the information needs that arise in an environment and carry out all the stages in the process of building an information system.