

## MS in Computer and Information Science: Program Goals & Outcomes

***Goal I: To provide the knowledge and skills to design, implement and manage the development of efficient computing systems that solve real-life industrial and academic problems***

Student Learning Outcomes:

*Students will be able to:*

1. Formulate and crucially assess problems, including reviewing existing data and results on related topics as well as conducting a requirements analysis
2. Design and implement solutions using development tools in keeping with state-of-the-art technologies
3. Analyze the obtained solutions in terms of accuracy, performance and compliance with requirements

***Goal II: To develop strong communication skills both within and outside the field***

Student Learning Outcomes:

*Students will be able to:*

4. Produce and deliver professional written reports and oral presentations
5. Efficiently communicate with specialists, customers, project lead, and demonstrate ability to lead discussions on both professional and non-technical topics

***Goal III: To nurture the professional values of teamwork, integrity and leadership***

Student Learning Outcomes:

*Students will be able to:*

6. Combine individual creativity with teamwork skills in multi-disciplinary team environment
7. Be able to assume different roles in a project, including leadership and management

***Goal IV: To broaden the professional horizons beyond the conventional field's limits in search of cross-disciplinary areas of application***

Student Learning Outcomes:

*Students will be able to:*

8. Understand the impact of computing systems in an scientific, economic, environmental and societal context
9. Supplement core CIS knowledge with increased awareness in a related field of study

***Goal V: To foster the appreciation for further education and lifelong learning for continued professional development***

Student Learning Outcomes:

*Students will be able to:*

10. Identify and evaluate existing research thoroughly and systematically which is relevant to a problem or topic of inquiry
11. Cultivate the disposition to discover and learn new material on his/her own, including the ability to conduct independent research