

## **Program Objectives (PO)**

**PO-01:** Demonstrate a strong theoretical computing knowledge and practical skills to design and apply effective solutions to the real-world problems.

**PO-02:** Perform ethical and social responsibilities, as an individual and team player.

**PO-03:** Manifest life-long learning and managerial skills for sustainable career development and professional growth.

## **Graduate Attributes (GA)**

**GA-01 Academic Education:** To prepare graduates as computing professionals.

**GA-02 Knowledge for Solving Computing Problems:** Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the 16 abstractions and conceptualization of computing models from defined problems and requirements.

**GA-03 Problem Analysis:** Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.

**GA-04 Design/ Development of Solutions:** Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

**GA-05 Modern Tool Usage:** Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.

**GA-06 Individual and Teamwork:** Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.

**GA-07 Communication:** Communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.

**GA-08 Computing Professionalism and Society:** Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.

**GA-09 Ethics:** Understand and commit to professional ethics, responsibilities, and norms of professional computing practice.

**GA-10 Life-long Learning:** Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

## **Mapping**

<b>S.#</b>	<b>Program Learning Outcomes (PLOs)</b>	<b>PO</b>		
		<b>PO-01</b>	<b>PO-02</b>	<b>PO-03</b>
1.	Academic Education	X		
2.	Knowledge for solving Computing Problems	X		
3.	Problem Analysis	X		
4.	Design/ Development of Solutions	X		
5.	Modern Tool Usage	X		
6.	Individual and Teamwork		X	
7.	Communication			X
8.	Computing Professionalism and Society		X	X
9.	Ethics		X	X
10.	Life-long Learning			X