

### **Program Learning Outcomes:**

- 1- An ability to use a variety of computer programming languages and be competent at least in one high level language.
- 2- An ability to apply programming language concepts, such as data models, control structures, language translation and testing and debugging, in the development of software systems.
- 3- An ability to apply algorithmic concepts and constructs in problem analysis and design.
- 4- An ability to determine algorithm efficiency, computability and resource usage.
- 5- An ability to apply concepts of discrete mathematics, probability, and statistics, appropriate to the discipline.
- 6- A knowledge of computer organization, architecture, and operating systems.
- 7- An ability to function effectively in a team.
- 8- A knowledge of contemporary issues.
- 9- An ability to follow appropriate practices within a professional, legal, and ethical framework and to understand the impact of computer science in a global and societal context.
- 10- An understanding of the need for, and an ability to engage in, continuing professional development.
- 11- A knowledge of mathematics as it applies to solving problems in computer science.
- 12- An ability to communicate in written, oral, and electronic media.
- 13- An ability to use current techniques, skills, and tools in an area of computer science.