Course Objectives:
The objective(s) of this course is to,

- Learn to design and analyze algorithms with an emphasis on the resource utilization in terms of time and space.
- Learn various techniques in development of algorithms so that the effect of problem size and architecture design on the efficiency of the algorithm is appreciated.
- Learn to prove the correctness of algorithms.

Course Outcomes:
At the end of the course, the student will be able to:

- Identify the design technique used in an algorithm.
- Design an algorithm for a problem in a known design technique.
- Prove the correctness of an algorithm.
- Analyze the resource utilization of an algorithm in terms of time and space.
- Understand the limits of algorithms and the ways to cope with the limitations.

Course Content:

Pre-requisite Courses: Problem Solving with C.

Reference Book(s):