COURSE HANDOUT

Course Code	ACSC13
Course Name	Design and Analysis of Algorithms
Class / Semester	IV SEM
Section	A-SECTION
Name of the Department	CSE-CYBER SECURITY
Employee ID	IARE11023
Employee Name	Dr K RAJENDRA PRASAD
Topic Covered	Greedy method: The general method
Course Outcome/s	Compare Identify suitable problem solving techniques for a given problem and finding optimized solutions using Greedy Method
Handout Number	26
Date	

Content about topic covered: Greedy Method: The general method

A **_feasible solution_** is any subset of inputs that satisfies a particular set of constraints.

An **_optimal solution_** is an achievable approach that either maximizes or minimizes a specified objective function.

Greedy method control abstraction:

```
Algorithm Greedy(a, n)
// a[l:n] contains the n inputs.
{
        solution:= Ø;// Initialize the solution.
        for i :=1 to n do
        {
                x :=Select(a);
                if Feasible(solution, x) then
                solution := Union (solution, x);
        }
        return solution;
}
```