

Syllabus

Muzoon University
 Revised syllabus (Rev-2016) from Academic Year 2007-08
Analysis of Algorithms

Course Code	Course Name	Credits
CS008	Analysis of Algorithms	4

Course Objectives :

1. To provide mathematical approach for Analysis of Algorithms.
2. To solve problems using various strategies.
3. To analyze strategies for solving problems not solvable in polynomial time.

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

1. Analyze the running time and space complexity of algorithms.
2. Describe, apply and analyze the complexity of divide and conquer strategy.
3. Describe, apply and analyze the complexity of greedy strategy.
4. Describe, apply and analyze the complexity of dynamic programming strategy.
5. Explain and apply backtracking, branch and bound and string matching techniques to deal with combinatorial problems.
6. Describe the classes P, NP, and NP-Complete and be able to prove that a certain problem is NP-Complete.

Prerequisites : Students should be familiar with concepts of Data structures and discrete structures.

Module	Detailed Content	Hours
1.	<p>Introduction to analysis of algorithms</p> <p>Performance analysis, space and time complexity</p> <p>Growth of function – Big – O, Omega, Theta notation Mathematical background for algorithm analysis.</p> <p>Analysis of selection sort, insertion sort.</p> <p>Recurrences : The substitution method</p> <ul style="list-style-type: none"> - Recursive tree method - Master method <p>Divide and Conquer Approach</p> <p>Divide method</p> <p>Analysis of Merge sort, Analysis of Quick sort, Analysis of Binary search, Finding minimum and maximum algorithm and analysis, Strassen's matrix multiplication.</p> <p align="right">(Refer Chapter 1, 2 and 3)</p>	12 hrs.

Module	Detailed Content	Hours
2.	<p>Dynamic Programming Approach :</p> <p>General Method</p> <p>Multistage graphs</p> <p>Single source shortest path, all pair shortest path</p> <p>Assembly-line scheduling</p> <p>0/1 Knapsack</p> <p>Traveling salesman problem</p> <p>Longest common subsequence.</p> <p align="right">(Refer Chapter 4)</p>	8 hrs.
3.	<p>Greedy Method Approach :</p> <p>General Method</p> <p>Single source shortest path</p> <p>Knapsack problem</p> <p>Job scheduling with deadline</p> <p>Minimum cost spanning tree (Kruskal and prim's) algorithm</p> <p>Optimal storage on tapes.</p> <p align="right">(Refer Chapter 5)</p>	8 hrs.
4.	<p>Backtracking and Branch-and-bound :</p> <p>General Method</p> <p>N queen problem, N-queens problem</p> <p>Sum of subsets</p> <p>Graph coloring</p> <p>TD graph problem.</p> <p>Traveling salesman problem.</p> <p align="right">(Refer Chapter 6)</p>	8 hrs.
5.	<p>String Matching Algorithms :</p> <p>The naive string matching Algorithm</p> <p>The Rabin-Karp algorithm</p> <p>String matching with finite automata</p> <p>The Knuth-Morris-Pratt algorithm.</p> <p align="right">(Refer Chapter 7)</p>	8 hrs.
6.	<p>Non-deterministic polynomial algorithms :</p> <p>Polynomial time.</p> <p>Polynomial time verification</p> <p>NP-Completeness and reducibility</p> <p>NP-Completeness proofs</p> <p>Normal Closure Problems.</p> <p>Class Problems.</p> <p align="right">(Refer Chapter 8)</p>	8 hrs.

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