

Syllabus

Masoud 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 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 KMP algorithm</p> <p>String matching with finite automata</p> <p>The Smith-Waterman 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 Form Problems.</p> <p>Class Problems.</p> <p align="right">(Refer Chapter 8)</p>	8 hrs.

System Programming Techmax

KJ Lindholm-Leary



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Official Gazette of the United States Patent and Trademark Office ,1998 IC Master ,2001 **Scientific and Technical Aerospace Reports** ,1987-10 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,1976 *Sustainable Development in AI, Blockchain, and E-Governance Applications* Kumar, Rajeev,Abdul Hamid, Abu Bakar,Binti Ya'akub, Dato' Dr Noor Inayah Binti,Sharan, Hari Om,Kumar, Sandeep,2024-02-09 In the age of immediate technical expansion our world faces a multifaceted challenge ensuring the sustainability of our digital transformation Governments and organizations have wholeheartedly embraced innovative technologies such as artificial intelligence blockchain and e governance but in doing so they have encountered a complex web of issues These range from cybersecurity concerns in an increasingly digitalized world to the need for intelligent systems capable of managing automation infrastructure and interconnected environments Sustainable Development in AI Blockchain and E Governance Applications offers a forward thinking approach that harnesses the synergy between intelligent systems machine learning deep learning and blockchain methods It explores data driven decision making automation infrastructure autonomous transportation and the creation of connected buildings all aimed at crafting a sustainable digital future By delving into topics like machine learning for smart parking disease classification through neural networks and the Internet of Things IoT for smarter cities this book equips academic scholars with the tools they need to navigate the complex terrain of technology and governance Academic scholars and researchers in technology governance and sustainability will find this book to be an indispensable resource It caters to those seeking a comprehensive understanding of current and future trends in the integration of intelligent systems with cybersecurity applications **Intelligent Links 2** , System Programming Jin-Jwei Chen,2023 Ward's Business Directory of U.S. Private and Public Companies ,2004 **Architecture Schools in North America** ,1982 *Million Dollar Directory* Dun and Bradstreet, inc,2005 *Who's who in the West* Marquis Who's Who, LLC,1980-12 **D and B Million Dollar Directory** ,2011 *An Introduction to System Programming - Based on the PDP 11* Derrick Morris,1983 **Systems programming** John J. Donovan,1972 Structured Programming Richard C. Linger,Harlan D. Mills,Bernard I. Witt,1979 Precision programming Elements of logical expression Elements of program expression Structured programs Reading structured programs The correctness of structured programs Writing structured programs *Systems Programmer's Problem Solver* William S. Mosteller,1981 **The Systems Programming Series** , *MVS Systems Programming* David Elder-Vass,2000 **A Course in Systems Programming** Lars-Erik Thorelli,Andrzej Ciepielewski,1980 Expert Systems Programming Ken Pedersen,1989-05-08 How to prototype and develop an expert system This practical guide to the tools and techniques used to build expert systems shows you how to choose the best method for the job at hand saving you weeks of fact finding and experimental work Provides dozens of examples that can be applied to popular rule based systems Discusses user interface design reviewing and system testing multi valued information

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