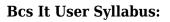
	Design and Analysis of Algorithm (BCS-503)	
Course Outcome ( CO) Bloom's Knowledge Lev		rel (KL)
ut the	end of course , the student will be able to:	
00	Design new algorithms, prove them correct, and analyze their asymptotic and absolute runtime and memory demands.	K4, K6
co:	Find an algorithm to solve the problem (create) and prove that the algorithm solves the problem correctly (validate).	Ks. Ks
co:	Understand the mathematical criterion for deciding whether an algorithm is efficient, and know many practically important problems that do not admit any efficient algorithms.	K <sub>2</sub> , K <sub>3</sub>
004	Apply classical sorting, searching, optimization and graph algorithms	K2, K4
co:	Understand basic techniques for designing algorithms, including the techniques of recursion, divide-and-conquer, and greedy.	K2, K3
	DETAILED SYLLABUS	3-1-0
Unit	Topic	Proposed Lecture
1	Introduction: Algorithms, Analyzing Algorithms, Complexity of Algorithms, Growth of Functions, Performance Measurements, Sorting and Order Statistics - Shell Sort, Quick Sort, Merge Sort, Heap Sort, Comparison of Sorting Algorithms, Sorting in Linear Time.	os
п	Advanced Data Structures: Red-Black Trees, B — Trees, Binomial Heaps, Fibonacci Heaps, Tries, Skip List	os
ш	Divide and Conquer with Examples Such as Sorting, Matrix Multiplication, Convex Hull and Searching.  Greedy Methods with Examples Such as Optimal Reliability Allocation, Knapsack, Minimum Spanning Trees - Prim's and Kruskal's Algorithms, Single Source Shortest Paths - Dijkstra's and Bellman Ford Algorithms.	os
IV	Dynamic Programming with Examples Such as Knapsack. All Pair Shortest Paths — Warshal's and Floyd's Algorithms, Resource Allocation Problem.  Backtracking, Branch and Bound with Examples Such as Travelling Salesman Problem, Graph Coloring, n-Queen Problem, Hamiltonian Cycles and Sum of Subsets.	os
v	Selected Topics: Algebraic Computation, Fast Fourier Transform, String Matching, Theory of NP- Completeness, Approximation Algorithms and Randomized Algorithms	os

#### Text books:

- Thomas H. Coreman, Charles E. Leiserson and Ronald L. Rivest, "Introduction to Algorithms", Printice Hall of India.
- 2. E. Horowitz & S. Sahni, "Fundamentals of Computer Algorithms",
- 3. Aho, Hopcraft, Ullman, "The Design and Analysis of Computer Algorithms" Pearson Education, 2008.
- LEE \*Design & Analysis of Algorithms (POD)\*, McGraw Hill
- 5. Richard E Neapolitan "Foundations of Algorithms" Jones & Bartlett Learning
- Jon Kleinberg and Éva Tardos, Algorithm Design, Pearson, 2005.
- Michael T Goodrich and Roberto Tamassia, Algorithm Design: Foundations, Analysis, and Internet Examples, Second Edition, Wiley, 2006.
- 8. Harry R. Lewis and Larry Denenberg, Data Structures and Their Algorithms, Harper Collins, 1997.
- 9. Robert Sedgewick and Kevin Wayne, Algorithms, fourth edition, Addison Wesley, 2011.
- Harsh Bhasin, "Algorithm Design and Analysis" First Edition, Oxford University Press.
- Gilles Brassard and Paul Bratley, Algorithmics: Theory and Practice, Prentice Hall, 1995.

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