

Department of Computer Science and Engineering

30th April 2019

Syllabus for written exam (PhD admission July 2019, Dept. of CSE, IIT-Jodhpur)

Programming and Data Structures

Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.

Algorithms

Searching, sorting, hashing. Asymptotic worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide-and-conquer. Graph search, minimum spanning trees, shortest paths.

Logical Reasoning
