



KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: CSE

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Analysis and design of Algorithms(CSE-306-F)

Name of Faculty with designation : Mr. Chain Singh(Assistant Professor)

| Month | Date & Day | Sem-Class | Unit | Topic/Chapter covered | Academic activity | Test / assignment |
|----------|--------------------|-----------|------|---|-------------------|------------------------------|
| January | 09.01.2018 Tuesday | VI-CSE-I | 1 | Brief review of Data Structure | | Assignment of 02 Ques. given |
| January | 12.01.2018 Friday | VI-CSE-I | 1 | Sorting and searching algorithm | | Assignment of 02 Ques. given |
| January | 16.01.2018 Tuesday | VI-CSE-I | 1 | Binary search, Merge sort, Selection sort | | Assignment of 02 Ques. given |
| January | 19.01.2018 Friday | VI-CSE-I | 1 | Quick sort | | Assignment of 02 Ques. given |
| January | 23.01.2018 Tuesday | VI-CSE-I | 1 | Analysis in term of space & time complexity | | Assignment of 02 Ques. given |
| January | 30.01.2018 Tuesday | VI-CSE-I | 1 | Set and Disjoint set, union | | Assignment of 02 Ques. given |
| February | 02.02.2018 Friday | VI-CSE-I | 1 | Strassens matrix multiplication algorithm & analysis of of algorithm for this problem | | Assignment of 02 Ques. given |
| February | 06.02.2018 Tuesday | VI-CSE-I | 1 | Divide & Conquer , General method | | Assignment of 02 Ques. given |
| February | 20.02.2018 Tuesday | VI-CSE-I | 1 | Master Theorem, Recurrence Relation, Solve recurrence relation using substitution method. | | Assignment of 02 Ques. given |
| February | 23.02.2018 Friday | VI-CSE-I | 2 | Greedy method,General method | | Assignment of 02 Ques. given |
| February | 27.02.2018 Tuesday | VI-CSE-I | 2 | knapsack problem analysis | | Assignment of 02 Ques. given |
| March | 06.03.2018 Tuesday | VI-CSE-I | 2 | Solve Job sequencing with deadline using Greedy Technique | | Assignment of 02 Ques. given |
| March | 09.03.2018 Friday | VI-CSE-I | 2 | Minimum spanning Tree, Single source shortest path | | Assignment of 02 Ques. given |

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| March | 13.03.2018 Tuesday | VI-CSE-I | 2 | Dynamic programming | | Assignment of 02 Ques. given |
| March | 16.03.2018 Friday | VI-CSE-I | 2 | Optimal Binary search tree | | Assignment of 02 Ques. given |
| March | 27.03.2018 Tuesday | VI-CSE-I | 2 | Travelling salesperson problem | | Assignment of 02 Ques. given |
| April | 03.04.2018 Tuesday | VI-CSE-I | 3 | Backtracking Technique 8 queen's problem | | Assignment of 02 Ques. given |
| April | 06.04.2018 Friday | VI-CSE-I | 3 | Graph Coloring, Hamiltonion Cycle | | Assignment of 02 Ques. given |
| April | 10.04.2018 Tuesday | VI-CSE-I | 3 | Branch & Bound method, 0/1 knapsack problem | | Assignment of 02 Ques. given |
| April | 13.04.2018 Friday | VI-CSE-I | 3 | Travelling Salseperson problem | | Assignment of 02 Ques. given |
| April | 24.04.2018 Tuesday | VI-CSE-I | 4 | NP Hard & NP Complete | | Assignment of 02 Ques. given |
| April | 27.04.2018 Friday | VI-CSE-I | 4 | Cooks's theorem, NP Hard Graph, NP Hard scheduling problems, Some simplified NP Hard problem | | Assignment of 02 Ques. given |