

# **DR. NACHARYA**

**COLLEGE OF ENGINEERING**

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: IT

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

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

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January	08.01.2018 Monday	VI CSIT& VII ECS	1	Brief review of Data Structure	.....	Assignment of 02 Ques. given
January	10.01.2018 Wednesday	VI CSIT& VII ECS	1	Sorting and searching algorithm		Assignment of 02 Ques. given
January	15.01.2018 Monday	VI CSIT& VII ECS	1	Binary search, Merge sort, Selection sort		Assignment of 02 Ques. given
January	17.01.2018 Wednesday	VI CSIT& VII ECS	1	Quick sort		Assignment of 02 Ques. given
January	29.01.2018 Monday	VI CSIT& VII ECS	1	Analysis in term of space & time complexity		Assignment of 02 Ques. given
February	05.02.2018 Monday	VI CSIT& VII ECS	1	Set and Disjoint set, union		Assignment of 02 Ques. given
February	07.02.2018 Wednesday	VI CSIT& VII ECS	1	Strassens matrix multiplication algorithm & analysis of of algorithm for this problem		Assignment of 02 Ques. given
February	19.02.2018 Monday	VI CSIT& VII ECS	1	Divide & Conquer , General method		Assignment of 02 Ques. given
February	21.02.2018 Wednesday	VI CSIT& VII ECS	1	Master Theorem, Recurrence Relation, Solve recurrence relation using substitution method.		Assignment of 02 Ques. given
February	26.02.2018 Monday	VI CSIT& VII ECS	2	Greedy method,General method		Assignment of 02 Ques. given
February	28.02.2018 Wednesday	VI CSIT& VII ECS	2	knapsack problem analysis		Assignment of 02 Ques. given
March	05.03.2018 Monday	VI CSIT& VII ECS	2	Solve Job sequencing with deadline using Greedy Technique		Assignment of 02 Ques. given

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March	07.03.2018 Wednesday	VI CSIT& VII ECS	2	Minimum spanning Tree, Single source shortest path		Assignment of 02 Ques. given
March	12.03.2018 Monday	VI CSIT& VII ECS	2	Dynamic programming		Assignment of 02 Ques. given
March	14.03.2018 Wednesday	VI CSIT& VII ECS	2	Optimal Binary search tree		Assignment of 02 Ques. given
March	26.03.2018 Monday	VI CSIT& VII ECS	2	Travelling salesperson problem		Assignment of 02 Ques. given
March	28.03.2018 Wednesday	VI CSIT& VII ECS	3	Backtracking Technique 8 queen's problem		Assignment of 02 Ques. given
April	02.04.2018 Monday	VI CSIT& VII ECS	3	Graph Coloring, Hamiltonion Cycle		Assignment of 02 Ques. given
April	04.04.2018 Wednesday	VI CSIT& VII ECS	3	Branch & Bound method, 0/1 knapsack problem		Assignment of 02 Ques. given
April	09.04.2018 Monday	VI CSIT& VII ECS	3	Travelling Salseperson problem		Assignment of 02 Ques. given
April	11.04.2018 Wednesday	VI CSIT& VII ECS	4	NP Hard & NP Complete		Assignment of 02 Ques. given
April	25.04.2018 Wednesday	VI CSIT& VII ECS	4	Cooks's theorem		Assignment of 02 Ques. given
April	30.04.2018 Monday	VI CSIT& VII ECS	4	NP Hard Graph, NP Hard scheduling problems, Some simplified NP Hard problem		Assignment of 02 Ques. given