Lesson Planning for the semester started w.e.f 5th jan. 2018

Name of Institute :- Sat Kabir Institute of Technology and Management,Ladrawan (Jhajjar)

Name of teacher with designation :-Mr. Dheeraj,AP

Department :-CSE

Month	Class	Topic/Chapter Covered	Academic Activity	Test/Assignment
Jan	**6th**	Brief Review of Graphs, union, sorting and searching algorithms and their analysis. (2 weeks)	**PPT**	**Assignment**
		Divide and Conquer, searching and sorting, Strassen‟s matrix multiplication algorithms and analysis. (2 weeks)	**PPT**	**Test**
	2ND (M.Tech)	Foundation & Elementary Data Structure: Algorithms, Performance analysis: Space & time complexity (2 weeks)	**PPT**	**Assignment**
		Graph & graph traversals: DFS, strongly connected components, Bi-connected components. (2 weeks)	**PPT**	**Test**
Feb	**6th**	Greedy Method, knapsack problem, job sequencing with dead lines, MST, single source paths (2 weeks)	**PPT**	**Assignment**
		Dynamic Programming, OBST, O/I knapsack, the traveling salesperson problem (2 weeks)	**PPT**	**Test**
	2ND (M.Tech)	Greedy & Dynamic Method: General methods, Knapsack problem, Job sequencing with deadlines (2 weeks)	**PPT**	**Assignment**
		Backtracking & Branch and Bound: General methods, 8 Queens problem, Sum of subsets, Graph coloring, (2 weeks)	**PPT**	**Test**
March	**6th**	Back Tracking, 8 queen's problem, graph colouring, Hamiltonian cycles (2 weeks)	**PPT**	**Assignment**
		Branch and Bound, O/I knapsack and TSP, Techniques for algebraic problems (2 weeks)	**PPT**	**Test**
	2ND (M.Tech)	NP-Hard & NP-Complete Problems: Basic concepts, Cook's Theorem, NP-hard graph problem, NP-Hard scheduling problems (2 weeks)	**PPT**	**Assignment**
		String Matching: Introduction, A straight forward solution, The Knuth-Morris-Pratt algorithm (2 weeks)	**PPT**	**Test**
April	**6th**	NP Hard and NP Complete Problems: Basic concepts, Cook's theorem (2 weeks)	**PPT**	**Assignment**
		NP hard graph and NP scheduling problems some simplified NP hard problems. (2 weeks)	**PPT**	**Test**
	2ND (M.Tech)	Parallel Algorithms: Introduction, Parallelism, The PRAM, and other models, some simple PRAM algorithms (2 weeks)	**PPT**	**Assignment**
		Approximation algorithms: Introduction, Absolute approximations, ϵ- approximations, Polynomial time approximation schemes (2 weeks)	**PPT**	**Test**

Dheeraj(29.12.17)