**KALANIKETAN POLYTECHNIC COLLEGE,JABALPUR**

**DEPARTMENT OF INFORMATIONTECHNOLOGY**

**WEEKLY LESSON PLAN**

**Name of the Faculty:Miss. Kripa Singh Desiganation: Guest Faculty**

**Branch/Semester:III Semester Information Technology**

**Subject Code and Name:Data structure and Algorithm(IT-30)**

**Academic Year:2016-17**

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| **S.No.** | | **Proposed Dates** | | | | **Topics to be covered** |
| **Date** | | **Hours** | |
| **WEEK - I** | | | | | | |
| **1** | **07/11/2016** | | **2** | | **Lab work: write a programme to perform bubble and insertion sorting.** | |
| **2** | **08/11/2016** | | **1** | | **Introduction to graph theory,types of graph,difference between Tree and Graph,** | |
| **3** | **10/11/2016** | | **1** | | **Traversal of Graph BFS & DFS algorithm,spanning Tree and its algorithm** | |
| **4** | **11/11/2016** | | **3** | | **Minimum spanning tree like prim’s and kruskal’s algorithm. Lab work: write a program to perform binary search in set of elements.** | |
| **5** | **12/11/2016** | | **1** | | **Single source shortest path algorithm Dijikshtra algo. ,all pair shortest path algorithm Floyd warshall algo.** | |
| **WEEK -II** | | | | | | |
| **5** | **15/11/2016** | | **1** | | **Garbage collection Techniques,partitioning and its types fixed and variable.** | |
| **6** | **17/11/2016** | | **1** | | **Progressive Test-II** | |
| **7** | **18/11/2016** | | **3** | | **Fragmentation and its types like Internal and External and its drawbacks and resoluti.on technique of this.** | |
| **WEEK -III** | | | | | | |
| **8** | **19/11/2016** | | **1** | | **Memory allocation technique Best fit worst fit and first fit and its uses.Lab work:write a program to perform Quick sort.** | |
| **9** | **21/11/2016** | | **2** | | **Symbol Table and its uses,storing values in symbol table,use of symbol table in compiler.** | |

**KRIPA SINGH**