**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**

|  |  |  |
| --- | --- | --- |
| **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**