**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Session Even Semester**

**(2017-18)**

**Class: B.Sc 4th Sem Name of the Teacher:Mr. Pardeep Kumar**

**Subject: Computer Science Period : 2nd**

**Paper :CS07 & CS08 Room No : 318**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Date From** | **Date Upto** | | **Topics to be covered** |
| Week 1 | Jan 08, 2018 | Jan 13, 2018 | | File Systems vs. DBMS, Characteristics of the Data Base Approach, Abstraction and Data Integration, Database users, Advantages and Disadvantages of DBMS, Data Independence. |
| Week 2 | Jan 15, 2018 | Jan 20, 2018 | | Relational model concepts, Integrity constraints over Relations, Conventional Data Models : An overview of Network and Hierarchical Data Models, The 12 Rules (Codd’s Rule) for an RDBMS. |
| Week 3 | Jan 22, 2018 | Jan 27, 2018 | | Entity Relationship model, Relational Algebra and Calculus. |
| Week 4 | Jan 29, 2018 | Feb 3, 2018 | | Client-Server Architecture, 3-tier Architecture of database, Distributed databases, Concurrency, Recovery. |
| Week 5 | Feb 5, 2018 | Feb 10, 2018 | | Normalization |
| Week 6 | Feb 12, 2018 | Feb 17, 2018 | | Data Structure and Data Structure operations. Arrays and Stacks. Introduction to Complexity |
| Week 7 | Feb 19, 2018 | Feb 24, 2018 | | Linked List |
| Week 8 | Feb 26, 2018 | Mar 03 , 2018 | | Queue |
| **2nd week March (Mid Semester Exam)** | | | | |
| Week 9 | March 15, 2018 | | March 17, 2018 | Trees: Binary Tree, Binary Tree Traversal, Binary Search tree |
| Week 10 | March 19 , 2018 | | March 24, 2018 | Graphs : DFS and BFS |
| Week 11 | March 26, 2018 | | March 31, 2018 | Searching: Binary and Linear Search; |
| Week 12 | April 02, 2018 | | April 07, 2018 | Sorting: Bubble sort, Insertion sort, Selection sort, |
| Week 13 | April 09, 2018 | | April 14 , 2018 | Merge Sort, Quick sort |
| Week 14 | April 16, 2018 | | April 21, 2018 | Normalization revision |
| Week 15 | April 23, 2018 | | April 28, 2018 | Programs related to arrays , link list ,stacks and queue . |
| Week 16 | April 30, 2018 | | May 05, 2018 | Revision and Test. |