**Post Graduate Govt. College for Girls, Sector-42, Chandigarh**

**Teaching Plan (Odd Semester) Session (2019-2020)**

**Class: PGDCA**   **Name of the Teacher: Mrs. Sheenam**

**Subject: Database mamagement system Period: 3rd**

**Paper: PGD-1103 Room No: 202(3-6)**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Dates** | **Topics to be Covered** |
| Week 1 | 23-07-2019 to 27-07-2019 | Introduction to Database and file oriented approach, Difference between Database and file oriented approach, DBMS Terminology. |
| Week 2 | 29-07-2019 to 03-08-2019 | General Architecture of a Data Base Management Software, Physical structure of DBMS. |
| Week 3 | 05-08-2019 to 10-08-2019 | Data Base Management Software,  Components of DBMS, Advantages and Disadvantages of DBMS. |
| Week 4 | 13-08-2019 to 17-08-2019 | Introduction to Data Models, Entity Relationship Model, Entities, Attributes, E-R Diagrams, Conceptual Design of a relational data base model. |
| Week 5 | 19-08-2019 to 24-08-2019 | Comparison of Network, Hierarchical and Relational Model. Client/Server Architecture-Introduction, advantages ,disadvantages, Comparison with DBMS. |
| Week 6 | 26-08-2019 to 31-08-2019 | Distributed Databases, Structure and Design of Distributed Databases .Advantages and disadvantages of DDBMS. Framework of DDBMS. |
| Week 7 | 02-09-2019 to 07-09-2019 | Relational Model :  Storage organization for Relations, Relational Algebra, Relational Calculus,  Functional dependencies, multivalued dependencies. |
| Week 8 | 09-09-2019 to 14-09-2019 | Data Types, Creating Tables, Creating a Table with data  from Another table, Inserting Values into a Table, Updating Column(s) of a Table, |
| Week 9 | 16-09-2019 to 21-09-2019 | Deleting Row(s) from a Table, Dropping a Column, |
| Week 10 | 23-09-2019 to 28-09-2019  (Youth Festival 24-09-2019 to 27-09-2019) | Querying database tables, |
| Week 11 | 30-09-2019 to 05-10-2019 | Database Integrity-Introduction, concepts,  Security, Different types of security mechanism |
| Mid Semester Exams | | |
| Week 12 | 16-10-2019 to 19-10-2019 | Querying Multiple Tables using Equi-Joins, Cartesian Joins, |
| Week 13 | 21-10-2019 to 26-10-2019 | Normalizations- Introduction, Concept of 1st, 2nd, 3rd, 4th Normal forms with their anomalies. |
| Week 14 | 29-10-2019 to 02-11-2019 | Concurrency –Introduction, Locking technique, Concurrency control mechanism, introduction to dead lock, Recovery techniques |
| Week 15 | 04-11-2019 to 09-11-2019 | Conditional retrieval of rows, Working with Null Values, Matching a pattern from a  table |
| Week 16 | 11-11-2019 to 16-11-2019 | Functions: Character Functions, Date Functions, Group Functions, Ordering the  result of a Query Aggregate Functions, Grouping the Result |
| Week 17 | 18-11-2019 to 23-11-2019 | Outer Joins, Self-Joins  SET Operators: Union, Intersect, Minus |
| Week 18 | 25-11-2019 to 30-11-2019 | Definition and Advantages of Views, Creating and Altering |