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

**Teaching Plan Session Odd Semester**

**(2018-19)**

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

**Subject: DataBase Management System Period : 2nd 3rd 4th**

**Paper : PGD-1103 Room No : (1) 101 (1-2)lab1**

**(3-4)202 (5-6) lab 4**

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| S. No | Date From | | Date Upto | Topics to be covered |
| Week 1 | (For ongoing classes) | | | Introduction to Database and file oriented approach, Difference between Database and file oriented approach, DBMS Terminology. |
| July 24, 2018 | | July 28, 2018 |
| Week 2 | July 30, 2018 | August 4, 2018 | | Data Base Management Software,  Components of DBMS, Advantages and Disadvantages of DBMS. |
| Week 3 | August 6, 2018 | August 11, 2018 | | General Architecture of a Data Base Management Software, Physical structure of DBMS. |
| Week 4 | August 13, 2018 | August 18, 2018 | | Introduction to Data Models, Entity Relationship Model, Entities, Attributes, E-R Diagrams, Conceptual Design of a relational data base model. |
| Week 5 | August 20, 2018 | August 25, 2018 | | Comparison of Network, Hierarchical and Relational Model. Client/Server Architecture-Introduction, advantages ,disadvantages, Comparison with DBMS. |
| Week 6 | August 27, 2018 | September 1, 2018 | | Distributed Databases, Structure and Design of Distributed Databases .Advantages and disadvantages of DDBMS. Framework of DDBMS. |
| Week 7 | September 3, 2018 | September 8, 2018 | | Relational Model :  Storage organization for Relations, Relational Algebra, Relational Calculus,  Functional dependencies, multivalued dependencies. |
| Week 8 | September 10, 2018 | September 15, 2018 | | Normalizations- Introduction, Concept of 1st, 2nd, 3rd, 4th Normal forms with their anomalies. |
| Week 9 | September 17, 2018 | September 22, 2018 | | Database Integrity-Introduction, concepts,  Security, Different types of security mechanism |
| Week 10 | September 24, 2018 | September 29, 2018 | | Data Types, Creating Tables, Creating a Table with data  from Another table, Inserting Values into a Table, Updating Column(s) of a Table, |
| Week 11 | October 1, 2018 | October 8, 2018 | | Deleting Row(s) from a Table, Dropping a Column, Querying database tables, |
| MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018) | | | | |
| Week 12 | October 20, 2018 | October 27, 2018 | | Concurrency –Introduction, Locking technique, Concurrency control mechanism, introduction to dead lock, Recovery techniques |
| Week 13 | October 29, 2018 | November 3, 2018 | | Conditional retrieval of rows, Working with Null Values, Matching a pattern from a  table |
| Week 14 | November 5, 2018 | November 10, 2018 | | Functions: Character Functions, Date Functions, Group Functions, Ordering the  result of a Query Aggregate Functions, Grouping the Result |
| Week 15 | November 12, 2018 | November 17, 2018 | | Definition and Advantages of Views, Creating and Altering |
| Week 16 | November 19, 2018 | November 22, 2018 | | Views, Using Views, Querying Multiple Tables using Equi-Joins, Cartesian Joins, |
| Week 17 | November 26, 2018 | December 1, 2018 | | Outer Joins, Self-Joins  SET Operators: Union, Intersect, Minus. |