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

**Teaching Plan Session Odd Semester**

**(2018-19)**

**Class: B.Sc. V Sem Name of the Teacher: Ramninder Kaur**

**Subject: Computer Science(E) Period : V**

**Paper : Theory A & B Room No : 318**

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| **S. No** | **Date**  **From** | **Date Upto** | **Topics to be covered** |
| Week 1 | **(For ongoing classes)** | | **Interactive SQL** : SQL commands; Data Definition Language Commands; Create table command, Modifying the structure of the table using alter command Renaming table; Destroying tables. |
| July 24, 2018 | July 28,  2018 |
| Week 2 | July 30, 2018 | August 4,  2018 | Data Manipulation Language Commands; Data types, Insertion of data into the tables; Viewing of data from the tables; Conditional viewing of data; Deletion operations; Updating the contents of the table |
| Week 3 | August 6, 2018 | August 11,  2018 | **Data Constraints:** Types of Data Constraints; Column Level Constraints; Table Level Constraints; Null value concepts; The UNIQUE Constraint; The PRIMARY Constraint; The FOREIGN key Constraint. |
| Week 4 | August 13, 2018 | August 18,  2018 | The CHECK Constraint; Viewing the User Constraint.  Adding and altering column level and table level constraints.  **Concepts of Project Management :** Concept of a project, characteristic features of a project, Categories of project. |
| Week 5 | August 20, 2018 | August 25,  2018 | Project life cycle phases, Project Management Concepts, Tools and Techniques for Project Management, Introduction of Computerised project management systems, Roles and Responsibilities of a Project Manager. |
| Week 6 | August 27, 2018 | Sept 1,  2018 | **Establishing the Project :**  Feasibility Report : Raw material survey, Demand study, Technical study, Location study; Financing Arrangements, Preparation of Cost Estimates, Finalisation of Project Implementation Schedule, Evaluation of the Project Profitability, Fixing the zero date. |
| Week 7 | Sept 3, 2018 | Sept 8,  2018 | **SQL Operators and Functions:** Arithmetic operators, Logical operators, Range searching, Pattern matching; Using DUAL, SYSDATE; SQL Functions: Group, Scalar, Aggregate, Numeric, String and Date Functions. |
| Week 8 | Sept 10, 2018 | Sept 15,  2018 | **Grouping data from tables in SQL :** GroupBy , Having clause, Subqueries, Collating Information: Equi Joins, Cartesian Joins, Outer Joins, Self Joins; SET Operators: Union, Intersect, Minus; Nested Queries. |
| Week 9 | Sept 17, 2018 | Sept 22,  2018 | **Organizing human resource:**  Delegation, Project organization: Matrix, Tax force and Totally projectized organization;  **Organizing the Project:**  Working of Systems, Design of Systems, Project Work System Design, |
| Week 10 | Sept 24, 2018 | Sept 29,  2018 | Work Breakdown Structure, Project Execution Plan, Project Procedure Manual, Project Control System, Planning, Scheduling and Monitoring. |
| Week 11 | Oct 1, 2018 | Oct 8,  2018 | **Indexes**: Creation, Types, Dropping an index; Introduction to Views, Manipulating the Base table(s) through views, Rules of DML Statements on Join Views, Dropping a View, Inline Views, Materialized Views.  **Sequences:** Creation, Reference and Alteration; Database Security and Privileges: Grant Command, Revoke Command, Application Privileges Management, COMMIT and ROLLBACK. |
| **MID SEMESTER EXAMINATION (October 11, 2018 to October 17, 2018)** | | | |
| Week 12 | Oct 20, 2018 | Oct 27,  2018 | **PL/SQL-I**: Introduction to PL/SQL, The Advantage of PL/SQL, PL/SQL block structure, PL/SQL Architecture, Fundamentals of PL/SQL, PL/SQL Data types, Variables and constants, Scope and visibility of a variable, Assignments and expressions, Operator precedence, Conditional and iterative control, SQL within PL/SQL, writing PL/SQL code. |
| Week 13 | Oct 29, 2018 | Nov 3,  2018 | **Project Directions, Coordination and Control:**  Project Direction, Communications in a Project, Project Coordination, Project Control, Scope/Progress Control, Performance Control, Schedule Control, and Cost Control. |
| Week 14 | Novr 5, 2018 | Nov 10,  2018 | **Project Management Performance:**  Performance Indicators, Performance Improvement, Project Management Environment. |
| Week 15 | Nov 12, 2018 | Nov 17,  2018 | **PL/SQL-II**: Cursor management in PL/SQL, Cursor manipulation, Implicit and Explicit cursor attributes, Exceptional Handling, Subprograms in PL/SQL, Procedure, Functions, and Triggers. |
| Week 16 | Nov 19, 2018 | Nov 22,  2018 | **Report Writing - I:**  Characteristics of Reports, Importance of Reports, Types of Reports, Structure and layout of Reports: front matter, main body, back matter; Preparatory Steps to Writing Reports: Evaluation of material, Note making, Organising material, Principle of organisation, Making outline. |
| Week 17 | Nov 26, 2018 | Dec 1,  2018 | **Report Writing- II:**  Elements of Style; Use of Illustrations: types; Writing the Report: Rough draft, Process of writing, Order of writing, Final draft, Check list for reports; Specimen Reports: technical report. |