# Lesson Plan

**Name of the Faculty** : **DR. MANJU PAPREJA(PROFESSOR)**

**Discipline** : **BCA**

**Semester** : **4TH**

**Subject** :**Relational Database Management System(BCA-204 B ) &BCA-224B**

**Lesson Plan Duration** :**15 weeks(from January, 2018 to April, 2018)**

**Work Load (Lecture/Practical)per week(in hours): Lecture:3, Practical:2**

| Week | Theory | | Practical | |
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| | Lecture Day | Topic(including Assignment/Test) | Practical Day | Topic |
| 1st | 1st | Overview of DBMS | **1st** | **OVERVIEW OF SQL** |
| | 2nd | Relational Model Concepts | 2nd | DATA TYPES IN SQL |
| | 3rd | Relational Model Concepts | | |
| | T1 | Tutorial---review of lectures | | |
| 2nd | 4th | Relational Model Concepts | 3rd | |
| | 5th | Codd's Rules for Relational Model | 4th | |
| | 6th | SQL: Data Definition and data types | | |
| | T2 | Tutorial--- problem/review of lectures | | |
| 3rd | 7th | Basic Queries in SQL | 5th | Basic Queries in SQL |
| | 8th | Basic Queries in SQL | 6th | Basic Queries in SQL |
| | 9th | Basic Queries in SQL…..INSERT | | |
| | T3 | Tutorial---problem/ review of lectures | | |
| 4th | 10th | Basic Queries in SQL…..DELETE | 7th | Basic Queries in SQL…..INSERT |

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| | 11th | Basic Queries in SQL…..UPDATE | 8th | Basic Queries in SQL…..UPDATE |
| | 12th | Basic Queries in SQL….. CONSTRAINTS | | |
| | T4 | Tutorial--- problem/review of lectures | | |
| 5th | 13th | Basic Queries in SQL….. CONSTRAINTS | 9th | Basic Queries in SQL…..DELETE |
| | 14th | Basic Queries in SQL….. CONSTRAINTS | 10th | Basic Queries in SQL…..CONSTRAINTS |
| | 15th | Basic Queries in SQL…..CONSTRAINTS | | |
| | T5 | Tutorial--- problem/review of lectures | | |
| 6th | 16th | Basic Queries in SQL…. VIEWS | 11th | Basic Queries in SQL…..CONSTRAINTS |
| | 17th | INBUILT FUNCTIONS OF SQL | 12th | Basic Queries in SQL…..CONSTRAINTS |
| | 18th | INBUILT FUNCTIONS OF SQL | | |
| 7th | 19th | Assignment on unit-3<br><br>Test of unit-3 | 13th | Basic Queries in SQL…..CONSTRAINTS |
| | 20th | Relational Algebra:- OVERVIEW, SELECTION, PROJECTION | 14th | Basic Queries in SQL…. VIEWS |
| | 21st | Relational Algebra:- Set Operation, Renaming, Join and Division | | |
| | T6 | Tutorial--- problem/review of lectures | | |
| 8th | 22nd | Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus. | 15th | INBUILT FUNCTIONS OF SQL |
| | 23rd | Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus. | 16th | INBUILT FUNCTIONS OF SQL |
| | 24th | Assignment on unit-1<br><br>Test of unit-1 | | |
| | T7 | Tutorial--- | | |

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| | | problem/review of lectures | | |
| 9th | 25th | Functional Dependencies terminology, types of FD, Characteristics | 17th | INBUILT FUNCTIONS OF SQL |
| | 26th | Dependencies:-,FD AXIOMs, Decomposition | 18th | SQL QUERIES AS ASSIGNEMENT |
| | 27th | Normalization:- Purpose, Data Redundancy and Update Anomalies. | | |
| | T8 | Tutorial--- problem/review of lectures | | |
| 10th | 28th | Normal Forms (1NF, 2NF, 3NF & BCNF). | 19th | SQL QUERIES AS ASSIGNEMENT |
| | 29th | REVIEW OF NORMALISATION | 20th | SQL QUERIES AS ASSIGNEMENT |
| | 30th | Assignment on unit-2<br><br>Test of unit-2 | | |
| | T9 | Tutorial--- problem/review of lectures | | |
| 11th | 31st | PL/SQL-Introduction, Advantages | 21st | SQL QUERIES AS ASSIGNEMENT |
| | 32nd | The Generic PL/SQL Block: PL/SQL<br><br>Execution Environment, | 22nd | SQL QUERIES AS ASSIGNEMENT |
| | 33rd | PL/SQL Character set and Data Types, | | |
| | T10 | Tutorial--- problem/review of lectures | | |
| 12th | 34th | PL/SQL Character set and Data Types, | 23rd | PL/SQL Character set and Data Types, |
| | 35th | Control Structure in PL/SQL, | 24th | PL/SQL Character set and Data Types, |
| | 36th | Control Structure in PL/SQL, | | |
| | T11 | Tutorial--- | | |

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| | | problem/review of lectures | | |
| 13th | 37th | Control Structure in PL/SQL, | 25th | Control Structure in PL/SQL, |
| | 38th | CURSORS IN PL/SQL | 26th | CURSORS IN PL/SQL |
| | 39th | CURSORS IN PL/SQL | | |
| | T12 | Tutorial---problem/ review of lectures | | |
| 14th | 40th | CURSORS IN PL/SQL | 27th | CURSORS IN PL/SQL |
| | 41st | Triggers In PL/SQL | 28th | Triggers In PL/SQL |
| | 42nd | Triggers In PL/SQL | | |
| 15th | 43rd | Assignment on unit-4<br><br>Test of unit-4 | 29th | Triggers In PL/SQL |
| | 44th | Problem session | 30th | Triggers In PL/SQL |
| | 45th | Problem session | | |

IMPORTANT DATES (KEY DATES)

* 14 to 16 February, 2018 (Wednesday -Friday)------ SESSIONAL I

*4 - 6 April, 2018 (Wednesday - Friday) ---------- SESSIONAL II

*27 April, 2018 (Friday) ---------- LAST DAY OF SESSION

*1 May to 8 May, 2018 (Tuesday-Tuesday)---------- PRACTICAL EXAMINATION

Start of End semester examinations (Even Semester)-----11 May, 2018 (Friday ) to 10 June, 2018 (Sunday)

(DR. MANJU PAPREJA)

PROFESSOR