

TCET/FRM/IP-02/09

Revision: A

Basic Skill based Bridge Course (BBC) Plan

Database Queries with Microsoft SQL Server and PostgreSQL

Semester: IV

Class: SE-CMPN

| Sr. No | Module No. | Lesson No. | Topics Planned (Technology to be used) | Teaching Aids Required | Planned / Completion Date | Resource Book Reference | Remarks |
|--------|------------|------------|---------------------------------------------------------------------------------------|------------------------|---------------------------|-------------------------|---------|
| | | | | | Div A, Div B | | |
| 1 | Module 1 | L 2.1 | Need of Databases, Disadvantages of File Processing system, Applications of Databases | Whiteboard, Marker | 15/01/2018,16/01/2018 | 1.1 | |
| 2 | | L 2.2 | Database Languages, Database Users, Functions of DBA | Whiteboard, Marker | 15/01/2018,16/01/2018 | 1.1 | |
| 3 | Module 2 | L 3.3 | Introduction to SQL, DDL Commands, Simple DML Commands | Whiteboard, Marker | 22/01/2018,23/01/2018 | 1.1,2.1 | |
| 4 | | L 3.4 | Exercise on L 3.3 | Whiteboard, Marker | 22/01/2018,23/01/2018 | 1.1,2.1 | |
| 5 | | L 4.1 | Constraints in SQL, Types of keys, Referential Integrity | Whiteboard, Marker | 29/01/2018,30/01/2018 | 1.1,2.1 | |
| 6 | | L 4.2 | Exercise on L 4.1 | Whiteboard, Marker | 29/01/2018,30/01/2018 | 1.1 | |
| 7 | Module 3 | L 5.1 | Aggregate Functions, Set Operations, Order by, Group by and Having Clause | Whiteboard, Marker | 05/02/2018,06/02/2018 | 1.1,2.1 | |
| 8 | | L 5.2 | Exercise on L 4.3 | Whiteboard, Marker | 05/02/2018,06/02/2018 | 1.1,2.1 | |
| 9 | | L 6.1 | Views, Sub Queries | Whiteboard, Marker | 12/02/2018,17/02/2018 | 1.1,2.1 | |
| 10 | | L 6.2 | Exercise on L 5.1 | | 12/02/2018,17/02/2018 | 1.1,2.1 | |
| 11 | Module 4 | | Test-I | Whiteboard, Marker | 26/02/2018,27/02/2018 | 1.1 | |
| 12 | | | Test-I | Whiteboard, Marker | 26/02/2018,27/02/2018 | | |
| 13 | | L 9.1 | Joins in SQL , Writing complex queries on sample schema. | Whiteboard, Marker | 05/03/2018,06/03/2018 | 1.1 | |
| | | L 9.2 | Exercise L 10.1 | | 05/03/2018,06/03/2018 | | |

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|------------------------------------------------|-----------------|--------------------|------------------------------------------------------------------------------------|--------------------|-----------------------|------------------|--|
| 14 | Module 5 | L 10.1 | Need of Normalization, Pitfalls in Relational Databases, Dependencies in Databases | Whiteboard, Marker | 12/03/2018,13/03/2018 | 1.1, 1.2 | |
| 15 | | L 10.2 | Exercise on L 10.2 | PPT | 12/03/2018,13/03/2018 | 1.1, 1.2 | |
| 16 | | L 11.1 | Normalization in SQL, Case Study in Database Design | PPT | 19/03/2018,20/03/2018 | 1.1,1.2 | |
| 17 | | L 11.2 | Exercise on L 10.4 | PPT | 19/03/2018,20/03/2018 | 1.1,1.2 | |
| 18 | Module 6 | L 12.1 | Introduction to PostgreSQL, Executing Queries on PostgreSQL | PPT | 26/03/2018,27/03/2018 | 2.2 | |
| 19 | | L 12.2 | Exercise On L 11.2 | PPT | 26/03/2018,27/03/2018 | 2.2 | |
| 20 | | | Test-II | | 02/04/2018,03/04/2018 | | |
| | | | Test-II | | 02/04/2018,03/04/2018 | | |
| Remark: Course: | | Syllabus Coverage: | | Practice Session: | | Beyond Syllabus: | |
| No. of (lectures planned)/(lectures taken):20/ | | | | | | | |

Note:

1. Plan date and completion date should be in compliance.
2. Course are required to be taught with emphasis Text books, digital references etc.

Text Books:

1. Korth, Sliberchatz, Sudarshan, "Database Systems Concepts", 6th Edition, McGraw - Hill.
2. Elmasri and Navathe, "Fundamentals of Database Systems", 5th Edition, PEARSON Education

Digital Reference:

1. <https://www.w3schools.com/SQL/default.asp>
2. <http://www.postgresqltutorial.com/>

(sd/-)

Name & Signature of Faculty

Date:

(sd/-)

Signature of HOD

Date:

(sd/-)

Signature of Principal/Dean(Academic)

Date:



TCET

DEPARTMENT OF COMPUTER ENGINEERING (CMPN)

Credit Based Grading System [CBGS - 2012(R)]/Choice Based Credit and Grading Scheme [CBCGS - 2016(R)]

University of Mumbai

