

**Computer Science Laboratory Course-II
(Advance Database Assignments using PostgreSQL)**

Semester: IV	Subject Code: BSP41609	Lectures: 60
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Objectives:

The syllabus aims in equipping students with,

- Understanding the use of views
- Understanding the use of stored functions
- Understanding the use of cursors
- Understanding the use of triggers

Unit 1: Simple Queries	4
Unit 2: Nested Queries, using aggregate function	4
Unit 3: Queries using view	4
Unit 4: Stored functions	10
Unit 5: Exception handling	6
Unit 6: Cursors	12
Unit 7: Triggers	8

*Contact hours – 12 hours



**Computer Science Laboratory Course-II
(Mini Project using Software Engineering Technique)**

Semester: IV	Subject Code: BSP41609	Lectures: 60
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Objectives:

The syllabus aims in equipping students with,

- To understand the process of designing and implementing applications
- Understanding the steps of system analysis and design
- Understanding Data requirements for a specific problem domain
- Designing Data base as per the Data requirements
- Designing queries as per the functional requirements

Computer Science Practical Lab: II

No	Topics	Lectures
1	Problem definition and scope	4
2	Feasibility study	4
3	Gathering Data requirements and functional requirement	8
4	Entity Relationship Diagram using tool	4
5	Designing the Normalized Database in 3NF	8
6	Data flow diagram and structure charts using tool	8
7	Designing and implementing the workload of a database	8
8	Test cases for workload	4
9	Presentation of the project work	4

*Contact hours – 8 hours

