Advanced C Programming and Relational database Management System [CORE COURSE]

	Semester – II	Credits: 1.5	Subject Code: BSP22009	Lectures: 40
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Course Outcomes:

At the end of this course, the learner will be able to:

- · Solve real world computational problems.
- · Use all advanced concepts to develop projects.
- · Write the programs to solve complex Problems
- · Perform database management operations
- Apply the fundamental concepts of RDBMS (PL/PgSQL)
- · Apply their mind to implement data security.

Unit 1: Advanced 'C' Programming(Section A)	20
 Assignment 1: Arrays (1-D and 2-D) Assignment 2: Simple Pointers. Pointer initialization and use of pointers. Pointer Arithmetic. Dynamic Memory Allocation Assignment 3: String handling using standard library functions Assignment 4: Structure and Unions Assignment 5: File Handling C Preprocessors. Assignment 6: Activity 	

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Practical Course on Relational Database Management Systems

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Unit 2: Relational Database Design Using PLSQL	20
 Assignment 1: Stored Function A Stored Function that returns A Stored Function recursive Assignment 2: Exception Handling Simple Exception- Raise Debug Level Messages Simple Exception- Raise Notice Level Messages Simple Exception- Raise Exception Level Messages Assignment 3: Cursors A Simple Cursor A Parameterize Cursor Assignment 4: Triggers Before Triggers (insert, update, delete) After Triggers (insert, update, delete) Assignment 5: Database Backup Using pg_dump Using pg_restore 	

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