



Computer Practical
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:
<p>At the end of this course, the learner will be able to:</p> <ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Assignment 1: Arrays (1-D and 2-D) • Assignment 2: <ul style="list-style-type: none"> ○ 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: <ul style="list-style-type: none"> ○ File Handling ○ C Preprocessors. • Assignment 6: Activity 	

Board of studies	Name	Signature
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Practical Course on Relational Database Management Systems

Unit 2: Relational Database Design Using PLSQL	20
<ul style="list-style-type: none"> • Assignment 1: Stored Function <ul style="list-style-type: none"> ○ A Simple Stored Function ○ A Stored Function that returns ○ A Stored Function recursive • Assignment 2: Exception Handling <ul style="list-style-type: none"> ○ Simple Exception- Raise Debug Level Messages ○ Simple Exception- Raise Notice Level Messages ○ Simple Exception- Raise Exception Level Messages • Assignment 3 : Cursors <ul style="list-style-type: none"> ○ A Simple Cursor ○ A Parameterize Cursor • Assignment 4 : Triggers <ul style="list-style-type: none"> ○ Before Triggers (insert, update, delete) ○ After Triggers (insert, update, delete) • Assignment 5 : Database Backup <ul style="list-style-type: none"> ○ Using pg_dump ○ Using pg_restore 	

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Faculty	Ms. Smita Borkar		
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Subject Expert(Outside SPPU)	Dr. Manisha Divate		
V.C. Nominee	Dr. Manisha Bharambe		
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