



Faculty of: **Computer Science**
 Course: **Bachelor of Computer Applications**
 Semester: **III**
 Subject Code: **4CS03APS1 (Elective – I)**
 Subject Name: **PostgreSQL**

Sr. No	Branch Code	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester								
				Th	Tu	Pr			Theory				Practical				Total
									Internal Assessment		End Semester Exams		Internal Assessment		End Semester Exams		
									Marks	Duration	Marks	Duration	Marks	Duration	Marks	Duration	
3	2	4CS03APS1	PostgreSQL	4	--	2	6	5	15 SE	1Hr.	70	2½ Hrs.	25 IP	1 Hrs.	---	--	150
									15 CE				25 CE				

AIM:

At the end of this course, Student can have knowledge of data manipulation in PostgreSQL.

COURSE CONTENTS

Unit I Introduction to PostgreSQL

5 Hrs.

- Introduction
- History
- Installation of PostgreSQL on Windows
- PostgreSQL datatypes

Unit II Postgre Database

5 Hrs.

- Connect to a PostgreSQL Database Server
- PostgreSQL create database
- PostgreSQL select database
- PostgreSQL drop database

Unit III PostgreSQL Table

8 Hrs

- PostgreSQL create table
- PostgreSQL constraints
- PostgreSQL alter table
- PostgreSQL rename table
- PostgreSQL truncate table

Unit IV PostgreSQL Queries

10 Hrs.

- PostgreSQL Insert
- PostgreSQL select
- PostgreSQL update
- PostgreSQL delete

Unit V PostgreSQL Clauses and condition**7 Hrs.**

- Where, order by, group by, having, distinct, limit
- And, or, not, like, in, not in, between

Unit VI Advanced PostgreSQL**10 Hrs.**

- PostgreSQL join
- PostgreSQL subquery
- PostgreSQL union, intersect, except
- PostgreSQL date time

REFERENCE BOOKS:

1. Learning PostgreSQL – stack overflow contributors.
2. PostgreSQL 8.0.26 Documentation
3. PostgreSQL Programmers Guide