

**Practical File
of
Source Code Management
(22CS003)**

Submitted in

***partial fulfillment for the award of the degree of*
BACHELOR OF ENGINEERING**

in

COMPUTER SCIENCE & ENGINEERING



**CHITKARA UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY
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List of practicals

S-No.	Practical	Signature
1.	Introducing Version Control – Git client (CLI, GUI), Linux environment Emulation, Advantages of VCS, Installing git CLI and git GUI	
2.	Setting up of the Git-hub Account and linking Git-hub account with git-bash	
3.	Creating a repository, Adding files, checking status, staged files/ untraced files and performing Commits	
4.	Generating logs: Visualization of various git logs	
5.	Git lifecycle description Git status, add, commit, stage – Life cycle of a file in Git managed in Repos.	
6.	Git branching and Merging: Visualization of git Branch and HEAD, Git branches management, Create a new branch, Commit changes in the new branch, Explore commit in the new branch, Merging the branches	
7.	Pushing your local repository on GitHub Repository: Creating a local repository, creating remote origin, performing Git push operation to GitHub account	
8.	To Add collaborators on Git-hub repository And Git Cloning- Cloning repository, Explore contents of the cloned repository, Explore cloned repository in GitHub Desktop, Commit changes in the cloned repository Git	
9.	Fork and commit on our repository - Fork is a copy of a repository that you manage After creating a fork, we can make any change like adding collaborators, rename files	
10.	Merge and Resolve conflicts - Resolution of merge conflicts, GitHub and remote repositories, Cloning remote repository, resolving conflicts	
11.	Git Reset (soft reset and hard reset), Git revert - Performing Soft reset and hard reset, Git revert	

S-No.	Title	Signature
12.	Version control with Git	
13.	Problem Statement	
14.	Objective	
15.	Resources Requirements – Frontend / Backend	
16.	Concepts and commands	
17.	Workflow and Discussion	
18.	Reference	