

## GIT and GITHUB

### Duration

2 Days

### Contents

Main Topics	Sub Topics
Fundamentals	What is Version Control System (VCS) Difference between Local VCS, Centralized VCS and Decentralized VCS Introduction to GIT
GIT Setup and Concepts	Setting up GIT environment GIT Concepts Introduction to <b>.git</b> folder Objects, references, index
Basic workflow of GIT	Creating Repository Configuring the repository Phases of GIT repository Add, Stage and Commit Ignore files Inspecting Repository
Working with GIT repository	Viewing Old Commits Undoing Changes Rewriting History
Branching and Merging	Branching Concept and workflow Create branch and working with branch Merging Three way merging Fast forward merge Rebasing.
Tagging	Tag Concepts and when it is used GIT tag commands Light weight tag and annotated tags View tags Checkout tags
GitHUB Overview	Install Github Tool Create a Github Account Navigate the Github UI

Main Topics	Sub Topics
GITHUB Basic workflow	GITHUB Workflow End to End <ul style="list-style-type: none"><li>- Creating repository</li><li>- Basic command line configuration</li><li>- Cloning a repository</li><li>- Editing local files</li><li>- Pushing changes</li><li>- Pulling changes from remote</li></ul>
Remote Branching and Merging	Branching Creating pull requests Editing pull requests for files Merging pull requests
GITHUB Features	Issues Releases and Tags Milestones Wiki
GITHUB Administration	GITHUB Administration