

Lesson Plan:

Week 1:

- Introduction to Git and GitHub
- Explanation of version control system and its importance
- Setting up Git and GitHub accounts
- Cloning a repository using git clone
- Basic Git commands: git init, git add, git commit

Week 2:

- Branching and merging in Git
- Creating a new branch with git branch
- Switching branches with git checkout
- Merging branches with git merge
- Resolving merge conflicts

Week 3:

- Remote repositories and collaboration
- Adding a remote repository with git remote add
- Fetching changes from a remote repository with git fetch
- Pushing changes to a remote repository with git push
- Pulling changes from a remote repository with git pull

Week 4:

- Advanced Git commands
- Removing files with git rm

- Moving files with `git mv`
- Viewing commit history with `git log`
- Using `git diff` to compare changes
- Customizing Git settings with `git config`

Weekly Timetable:

Monday:

- Introduction to Git and GitHub
- Setting up Git and GitHub accounts

Tuesday:

- Cloning a repository using `git clone`
- Basic Git commands: `git init`, `git add`, `git commit`

Wednesday:

- Branching and merging in Git
- Creating a new branch with `git branch`

Thursday:

- Switching branches with `git checkout`
- Merging branches with `git merge`

Friday:

- Resolving merge conflicts
- Review and practice

Monday:

- Remote repositories and collaboration
- Adding a remote repository with git remote add

Tuesday:

- Fetching changes from a remote repository with git fetch
- Pushing changes to a remote repository with git push

Wednesday:

- Pulling changes from a remote repository with git pull
- Review and practice

Thursday:

- Advanced Git commands
- Removing files with git rm

Friday:

- Moving files with git mv
- Customizing Git settings with git config
- Final review and assessment