School: .... Campus: ....

Academic Year: .... Subject Name: .... Subject Code: ....

Semester: .... Program: .... Branch: .... Specialization: ....

Date: ....

Applied and Action Learning
(Learning by Doing and Discovery)

Name of the Experiement : **Team Dev – Git and Collaboration in Projects**

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

- **Start**
- **Initialize Git in the project folder.**
- **Create a remote repository on GitHub.**
- **Clone the repository to each team member's local machine.**
- **Each member creates a new branch for their feature.**
- **Make code changes and save files.**
- **Stage changes using git add.**
- **Commit changes with a meaningful message.**
- **Push changes to the remote branch.**
- **Create a Pull Request for merging into main.**
- **Review PR by other members:**
        If approved, merge branch into main.
        If conflicts occur, resolve them manually.
- **Pull the updated main branch to local repositories.**
- **Repeat the process for new features or bug fixes.**
- **End**

* Software used

1. MetaMask Wallet
2. Remix IDE.
3. MS Word.
4. Brave for researching.

* Implementation Phase: Final Output (no error)

☐ Team creates a central repository (GitHub/GitLab).

☐ Developers clone it into their local systems.

☐ Each member works on separate branches (e.g., feature-login, bugfix-db).

☐ Developers push their branches to the remote repo.

☐ Pull Requests are created → Reviewed → Merged.

☐ The main branch always contains stable and updated code.

☐ Continuous Integration (CI) can run automated tests after merges.

☐ Final output: a well-maintained, collaborative, and version-controlled project.

* Observations:

- Each developer works independently without affecting others' code.
- The project remains synchronized through regular pulls.
- Merge conflicts occur when two users modify the same file, which are resolved during PR review

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	**50**		

Signature of the Student:

Name :

Signature of the Faculty:

Regn. No. :

*As applicable according to the experiment.
Two sheets per experiment (10-20) to be used.