

Module Presenter's Manual

for

Distributed Version Control

Effective from: December 2021 Ver. 1.0

Amendment Record

Version No.	Effective Date	Change	Replaced Pages
1.0	December 2021	New	-/

Table of Contents

Sr. No.	Details	Page No.
1.	Introduction	1
2.	Information on Module Session Allocation	1
3.	Module Deliverables on OnlineVarsity	2
4.	Week-wise Session Schedule	3
5.	Session Coverage	4
6.	<u>Library References</u>	7
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1. Introduction

At the end of this course, students will be able to:

- Outline necessity for Version Control.
- > Outline an Overview of Git.
- Describe bsics of Git.
- List Git terminology.
- > Describe how to make a new Git repository.
- Describe how to make a clone of an existing Git repository.
- Define configuration of Git.
- Outline staging and committing changes.
- Identify how to create a new branch.
- > Outline steps to develop code on multiple branches.
- > Outline steps to modify a branch.
- > Identify how to merge and delete branches.
- > Describe how to craeet a remote branch.
- > Decribe how to pull from remote connection.
- Explain GitHub.
- > Differentiate between Git and GitHub.
- Decribe how to craeet a GitHub repository.
- Describe Branching, Committing, and Pulling in GitHub.
- Describe forking and other operations with GitHub.
- > Identify the process to clone a repository.
- Explain GitHub Pages.
- Describe different types of GitHub Pages Sites.
- List the guidelines for using GitHub Pages.

2. Information on Session Allocation

Module	Online (No. of Hrs)	Self-Study (No. of Hrs)
Distributed Version Control	12	06

Throughout this Presenter's Manual, the module **Distributed Version Control** will be referred to as **Git & GitHub**.

Ver.1.0

3. Module Deliverables available on OnlineVarsity

To aid the learning process, following are the deliverables

Student Deliverables:

1. Learner's Guide (eBook)

Resources available on OnlineVarsity for Students:

Icons	Feature - Description/Functionality
	Download Book - Student has the option to download the subject related e-book and read offline.
AZ	Glossary - Student can access a list of subject related specialized words with their definitions.
= 1	FAQ - Student can access frequently asked questions and their answers.
>	Show Me How - Student can view a step-wise simulation/demonstration of the module related topics.
	Practice 4 Me - Student can test and evaluate their understanding of module related topics.
	Work Assignments - Student can solve scenario based lab assignments (Hands-on). The faculty will evaluate and give their feedbacks.
≣	References - Student can access additional subject related material for reading.
ava	Feedback - Student can provide feedback on the course material.
3	Ask to Learn – Student can submit subject related technical queries. Queries submitted will be directed to the particular course coordinator/head.

Issue Date: December 2021

4. Week-wise Session Schedule

A Session is of 2 hours duration

> Week-Wise Schedule

Week	Day 1		Day 2		Day 3	
	Session 1		Session 2		Session 3	
1	Git & GitHub -		Git & GitHub -	S1	Git & GitHub -	
	TL1		TL2		TL3	
	Session 4		Session 5		Session 6	
2	Git & GitHub -	S2	Git & GitHub -		Git & GitHub -	S3
	TL4		TL5		TL6	

TL: Online Session

S: Self-Study Session (over and above the module duration)

Issue Date: December 2021

5. Session Coverage

Session No.	Session Title	Session Details	Deliverables' Mapping
1	Git & GitHub- TL1	All the concept lessons as listed below from Session 1 and Session 2 of Version Control with Git and GitHub book should be covered in this session. Session 1 – Getting Started with Git Necessity for Version Control Introduction to Git Git Basics Command-Line Program Setting Up Git Session 2 – Working with Git Getting a Git Repository Setting Up the Project Folder Git Configuration Levels of Configuration Git Clone Staging Files	Version Control with Git and GitHub SG - Session 1 & 2 XP - Session 1 & 2 TG - Session 1 & 2
2	Git & GitHub – TL2	The workshop lessons of Session 1 and Session 2 of Version Control with Git and GitHub course should be covered in this session.	Version Control with Git and GitHub (OnlineVarsity)
	DX		Session 1 & 2
<0	S1	After the session, ask the students to refer the References and solve Assignments of Session 1 and Session 2 available on Onlinevarsity.	Version Control with Git and GitHub (OnlineVarsity) Session 1 & 2

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Session	Session		Deliverables'
No.	Title	Session Details	Mapping
3	Git & GitHub – TL3	All the concept lessons as listed below from Session 3 and Session 4 of Version Control with Git and GitHub book should be covered in this session.	Version Control with Git and GitHub SG - Session 3 & 4 XP - Session 3 & 4 TG - Session 3 & 4
		Session 3 - Git Branching	
		 Basic Branching nd Merging Creating a New Branch Delete, Rename, and Merge two Branches Basic Merging to Master Branch 	CO OUI
		Session 4 - Different Approaches to Git	
		Remote Branches in GitPulling in Git	
4	Git & GitHub – TL4	The workshop lessons of Session 3 and Session 4 of <i>Version Control</i> with Git and GitHub course should	Version Control with Git and GitHub
		be covered in this session.	(OnlineVarsity) Session 3 & 4
	S2	After the session, ask the students to refer the References and solve Assignments of Session 3 and Session 4 available on	Version Control with Git and GitHub (OnlineVarsity)
		Onlinevarsity.	Session 3 & 4
5	Git & GitHub – TL5	All the topics as listed below from Session 5 and Session 6 of Version Control with Git and GitHub book should be covered in this session. Session 5 – GitHub as a Project	Version Control with Git and GitHub SG - Session 5 & 6 XP - Session 5 & 6 TG - Session 5 & 6
		Repository	10 3033011 3 0 0
		 Introduction to GitHub GitHub Web Interface Differences between Git and GitHub 	
		Installing GitHub Desktop	

Issue Date: December 2021 Ver.1.0

Session No.	Session Title	Session Details	Deliverables' Mapping
		 Creating a Repository in GitHub Branching in GitHub Viewing Branches Deleting Branches Other Operations Committing in GitHub 	
		Session 6 - More on GitHub and Overview of GitHub Pages	$O_{U_{I}}$,
		 GitHub Pricing Plans Forking and Other Operations in GitHub 	60
		 Cloning a Repository Introduction to GitHub Pages Types of GitHub Pages Sites Guidelines for using GitHub 	
6	Git & GitHub – TL6	Pages The workshop lessons of Session 5 and Session 6 of <i>Version Control</i> with Git and GitHub course should	Version Control with Git and GitHub
	120	be covered in this session.	(OnlineVarsity) Session 5 & 6
	S3 🐯	After the session, ask the students to refer the References and solve Assignments of Session 5 & Session 6 available on	Version Control with Git and GitHub (OnlineVarsity)
		Onlinevarsity.	Session 5 & 6

Issue Date: December 2021 Ver.1.0

6. Library References

- > **Git** by Ryan Hodson
- > The Ultimate Beginners Guide Git by Adney Ainley
- > Building Tools with GitHub by Rosemie Callewaert and Johan Revilla
- Version Control with Git by Jon Loeliger, Matthew McCullough

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Issue Date: December 2021