

Department of Computer Science & Engineering (Data- Science)

**COURSE MODULE OF THE SUBJECT TAUGHT FOR THE SESSION 2024-25**  
**(EVEN SEM)**

## Course Syllabus with CO's

## Topics Covered as per Syllabus

1. Setting Up and Basic Commands  
Initialize a new Git repository in a directory. Create a new file and add it to the staging area and commit the changes with an appropriate commit message.
2. Creating and Managing Branches  
Create a new branch named "feature-branch." Switch to the "master" branch. Merge the "feature-branch" into "master."
3. Creating and Managing Branches  
Write the commands to stash your changes, switch branches, and then apply the stashed changes.
4. Collaboration and Remote Repositories  
Clone a remote Git repository to your local machine.
5. Collaboration and Remote Repositories  
Fetch the latest changes from a remote repository and rebase your local branch onto the updated remote branch.
6. Collaboration and Remote Repositories  
Write the command to merge "feature-branch" into "master" while providing a custom commit message for the merge.
7. Git Tags and Releases  
Write the command to create a lightweight Git tag named "v1.0" for a commit in your local repository.



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### 8. Advanced Git Operations

Write the command to cherry-pick a range of commits from "source-branch" to the current branch.

### 9. Analysing and Changing Git History

Given a commit ID, how would you use Git to view the details of that specific commit, including the author, date, and commit message?

### 10. Analysing and Changing Git History

Write the command to list all commits made by the author "JohnDoe" between "2023-01-01" and "2023-12-31".

### 11. Analysing and Changing Git History

Write the command to display the last five commits in the repository's history.

### 12. Analysing and Changing Git History

Write the command to undo the changes introduced by the commit with the ID "abc123".

<b>Laboratory Outcome</b>	<b>After studying this course, students will be able to</b> CO1: Use the basics commands related to git repository CO2: Create and manage the branches CO3: Apply commands related to Collaboration and Remote Repositories CO4: Use the commands related to Git Tags, Releases and advanced git operations CO5: Analyse and change the git history
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### Conduct of Practical Examination:

CIE marks for the practical course are 50 Marks.

The split-up of CIE marks for record/ journal and test are in the ratio 60:40.

- Each experiment is to be evaluated for conduction with an observation sheet and record write-up. Rubrics for the evaluation of the journal/write-up for hardware/software experiments are designed by the faculty who is handling the laboratory session and are made known to students at the beginning of the practical session.
- Record should contain all the specified experiments in the syllabus and each experiment write-up will be evaluated for 10 marks.
- Total marks scored by the students are scaled down to 30 marks (60% of maximum marks).
- Weightage to be given for neatness and submission of record/write-up on time.
- Department shall conduct a test of 100 marks after the completion of all the experiments listed in the syllabus.
- In a test, test write-up, conduction of experiment, acceptable result, and procedural knowledge will carry a weightage of 60% and the rest 40% for viva-voce.
- The suitable rubrics can be designed to evaluate each student's performance and learning ability.
- The marks scored shall be scaled down to 20 marks (40% of the maximum marks).

The Sum of scaled-down marks scored in the report write-up/journal and marks of a test is the total CIE marks scored by the student.

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#### The Correlation of Course Outcomes (CO's) and Program Outcomes (PO's)

Subject Code:	BCS358C		Title:Project Management with GIT						Faculty Name: Mrs. Neethi M V			
List of Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO-1	3	2	1	2	-	-	-	-	-	-	-	2
CO-2	3	2	1	2	-	-	-	-	-	-	-	2
CO-3	3	2	1	2	-	-	-	-	-	-	-	2
CO-4	3	2	1	2	-	-	-	-	-	-	-	2
CO-5	3	2	1	2								2
<b>Total</b>	<b>15</b>	<b>10</b>	<b>5</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10</b>

Note: 3 = Strong Contribution    2 = Average Contribution    1 = Weak Contribution    - = No Contribution

#### The Correlation of Course Outcomes (CO's) and Program Specific Outcomes (PSO's)

Subject Code:	21AIL66		TITLE:Machine Learning Lab		Faculty Name: Mrs. Neethi M V	
List of Course Outcomes	Program Specific Outcomes				Total	
	PSO1		PSO2			
CO-1	3		-			3
CO-2	3		-			3
CO-3	3		-			3
CO-4	3		-			3
CO-5	3		-			3