



## **GITHUB SEMINAR**

**Seminar on GITHUB conducted** by the Skill Development Cell Student body (SDC- SB).

Conducted on	: 17 <sup>th</sup> October 2022.
Duration	: 1 day
Mode of Training	: Offline
Venue	: ECE Seminar Hall
Registration Fees	: Free
Total Number of Participants	: 250 STUDENTS
Resource Person	: Dr.R.P Ram Kumar, Professor, Dept of AIML, GRIET

### **Objectives of the GITHUB seminar:**

To create awareness among the student community to understand the significance of GIT and GITHUB and their usage.

The main purpose of GitHub is version control of your code. There are many other benefits and features too but the single most important purpose is that - version control.

Imagine you are writing a program. You wrote something quick and dirty that works and solves the problem. You commit it into a GitHub repository then and there.

Then you move forward with giving a proper shape and elegance to your quick and dirty solution. You make a small change that still works but makes your solution a bit better in some way. You commit the change into the same repo in GitHub then and there.

Move on to the next change. You see that the changes you made now broke something that was working earlier and it is a soup now. You don't know what to do and how to untangle the code now. No problem. You can checkout from GitHub to the last working version and restart from there. Imagine you did not have GitHub. You would be forever worried about what was the last working version forever.



Now imagine you have 2 possible ways to implement the next change. You are unsure of which way to choose in the final production version. No problem. Make 2 branches in the repo, one for each method, and progress implementing both methods. Experiment and see which method is better and merge that branch into the master branch and discard the other branch.

Now imagine your friend also gets interested in your work and wants to contribute. You can ask your friend to fork your GitHub repo and start contributing in his own fork. When your friend is ready to push the code into your main branch he can send you a “pull request” so that you can pull in his solution into some branch of your repo. You can review his changes and ask him to rework or pull in his changes into your repo.

So like that, GitHub enables you precisely control how your code grows. Of course, it is the Git in the background that provides the engine and powers all this. GitHub allows you to easily create and manage these work flows on top of Git. But for simplicity you can consider GitHub as a version control tool.

You can of course do a lot more too - provide documentation, track issues, manage a small sized project, etc., and what I said above are the very basics.

A budding programmer like you should be using GitHub to store all the code you write for your pet projects. That way you can grow your portfolio in a stable structured way and share them easily too.

Outcome: Students learned how to create their own GIT account and how to use the version control and other features.

Seminar event photos are available at : <https://www.grietsdc.in/sdcsb.html>

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