



**Dattakala Shikshan Sanstha's  
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## GUEST LECTURE REPORT

Date: 30/09/2025

Topic: Introduction to Popular Programming Languages, Frameworks, IDEs, and Tools

### Objective

The objective of the guest lecture was to provide students with insights into the most widely used programming and markup languages, frameworks, development tools, and databases. The session aimed to enhance awareness of modern software development practices, integrated development environments (IDEs), and AI-assisted developer tools.

### Summary

The lecture began with an introduction to popular programming and scripting languages, such as JavaScript, HTML, SQL, and Python, highlighting their roles in web development, data handling, and automation.

Students were then introduced to various frameworks and the concept of an Integrated Development Environment (IDE), which simplifies software development through coding, debugging, and deployment support. The importance of synchronous tools and AI search/developer tools in modern development was also emphasized.

An overview of Microsoft .NET Framework was provided, followed by a discussion on widely used IDEs and code editors:

- VS Code (2015) – an open-source, lightweight editor.
- Visual Studio – a comprehensive IDE for multiple programming languages.

The lecture also covered significant developer products and platforms:

- GitHub (2008, acquired by Microsoft in 2018) for version control and collaboration.
- NuGet – a package manager for .NET.
- NPM (2014, GitHub acquired in 2020) for JavaScript package management.
- ChatGPT (2022) – a modern AI tool with Microsoft as a major investor.

Finally, the session discussed databases such as MS SQL, MS Access, and Azure as essential tools for data storage and management.



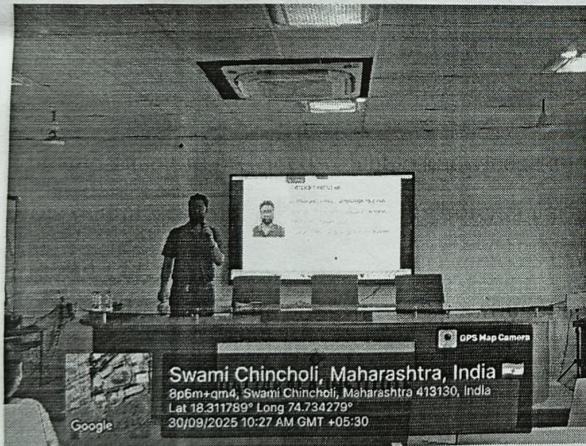
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## Conclusion

The guest lecture provided valuable knowledge about programming languages, frameworks, IDEs, and developer tools that are essential for today's IT professionals. Students gained an understanding of both traditional and modern technologies, including AI-driven tools that are shaping the future of software development. The session successfully bridged theoretical concepts with practical tools, preparing students to adopt industry-relevant practices.

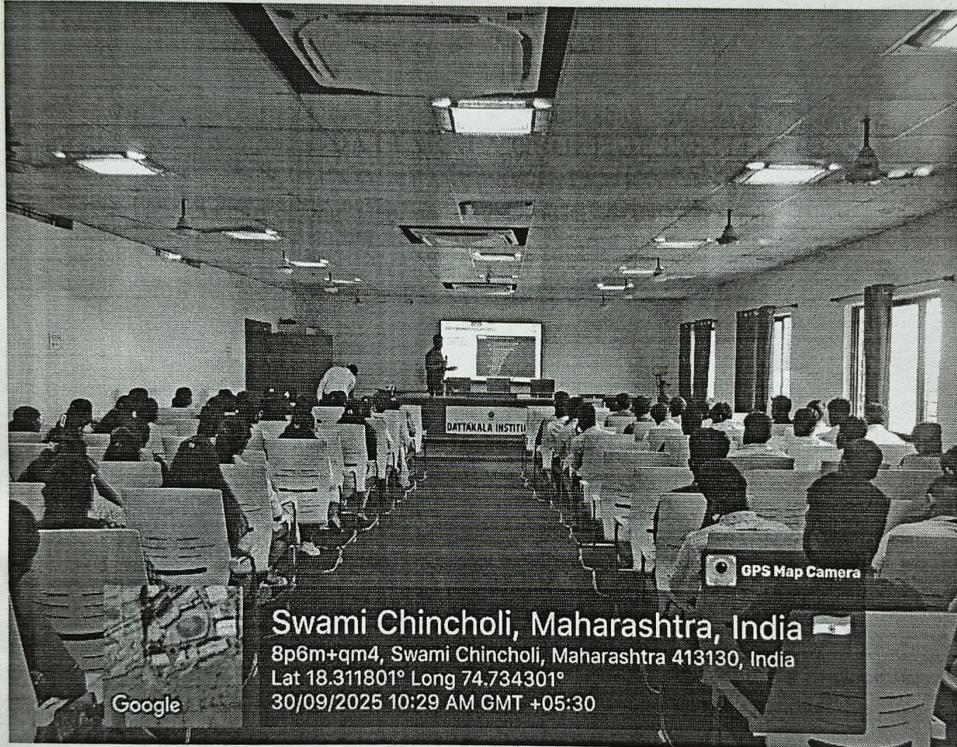
### Some Of Photographs while delivering the lecture are as follows:





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