SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

Date: 13-03-2025

It is hereby informed that our department is planned to organize a Workshop to III Year students of IT department on " **Coding and development phase in software engineering using GIT and DevOps** " on **15-03-2025** from **9.30 AM to 1.00 PM** at E-Class Room, SVCET. All the III Year students of IT Department are instructed to attend the workshop without fail.

HOD IT

Copy to:

1. Principal sir for kind information
2. Circulate among the faculty
3. Circulate among the students

SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

Autonomous

Accredited by NAAC with A+ Grade, B.Tech (CE,ME,EEE,ECE,CSE & IT) Accredited by NBA
Approved by AICTE, New Delhi I Affiliated to JNTUA, Anathapuramu

Organised By Department of IT & CSE (IoT)

Workshop on

Coding and Development Phase in Software Engineering Using GIT and DevOps

Target students IIIrd year IT and IOT

Date : 15-03-2025
Time : 09:30 AM to 01:00 PM
Venue : E-Class Room

Resourse Person

Mr.Bharath Sukka
Senior Analyst at HCL TECHNOLOGIES, Chennai.

Co-Ordinator
Mrs.S.Kokila
Assistant Professor
Department of IT

HOD - Professor
Dr.J.Velmurugan
Department of IT

Principal
Dr.M.Mohan Babu
SVCET, Chittoor

Report on Workshop:

Coding and development phase in software engineering using GIT and DevOps

Title: Coding and development phase in software engineering using GIT and DevOps

Organized By: Department of Information Technology, SVCET

Date: 15th March 2025

Time: 9:30 PM to 1:00 PM

Venue: E-Class Room, IT Department, SVCET

Resource Person:

Bharath Sukka

Senior Analyst at HCL TECHNOLOGIES

Chennai.

HOD-IT: Dr. J. Velmurugan

Coordinators: Mrs.S.KOKILA, Assistant Professor, IT Department

Introduction

The Department of Information Technology organized a workshop on **"Coding and development phase in software engineering using GIT and DevOps"**. Workshop provides knowledge on **Git** and its workflow for version control and collaboration, to Explore DevOps practices for continuous integration, delivery, and deployment. The benefits of using Git and DevOps in software engineering are discussed and provided hands-on experience with Git and DevOps tools and techniques. The event took place on **15th March 2025** from **9:30 AM to 1:00 PM** in the E-Class room.

Objectives

The key objectives of the workshop are:

1. Understand Git and DevOps Fundamentals: Gain a solid understanding of Git and DevOps concepts, including version control, continuous integration, and continuous deployment.
2. Mastering Git Workflow: Learn how to use Git for version control, including creating repositories, branching, merging, and resolving conflicts.
3. Implementing DevOps Practices: Understand how to implement DevOps practices, including continuous integration, continuous deployment, and monitoring.

Key Highlights

The resource persons presented detailed insights on the following topics:

1. Comprehensive Git Training: In-depth training on Git, including version control, branching, merging, and conflict resolution.
2. DevOps Practices and Tools: Coverage of DevOps practices, including continuous integration, continuous deployment, and monitoring, using tools like Jenkins, Docker, and Kubernetes.
3. Agile Development Methodologies: Introduction to Agile development methodologies, including Scrum and Kanban, and how to apply them in software engineering.
4. Collaboration and Code Review: Best practices for collaboration, including code reviews, pair programming, and effective communication.
5. Real-World Case Studies: Practical examples and case studies to illustrate key concepts and best practices.
6. Hands-on Coding and Development: Hands-on coding and development exercises to reinforce learning and gain practical experience.

Interactive Session

The workshop concluded with an engaging **Q&A session**, during which students raised queries about:

- The difference between GIT and other version control systems
- To resolve conflicts in GIT
- The purpose of the staging area in GIT
- To implement continuous integration and continuous deployment in the project
- Popular DevOps tools, and how to choose the right one for the project.
- Monitoring and troubleshooting the application in a DevOps environment.
- How to apply design patterns?

The resource persons provided practical advice and shared personal experiences to help students make informed decisions about their academic and career goals.

Outcomes

At the end of the workshop, participants will be able to:

- Use Git for version control and collaboration
- Implement DevOps practices, including continuous integration and deployment
- Automate testing and deployment using DevOps tools
- Monitor and troubleshoot applications using DevOps tools **Conclusion**

The event concluded with a vote of thanks delivered by **Mrs. S. KOKILA**, Assistant Professor, Department of IT, who acknowledged the efforts of the resource persons and the organizing team. The Workshop received positive feedback from students for its informative content and engaging discussions.

FeedBack:

The workshop received overwhelmingly positive feedback from participants. Here are some key highlights:
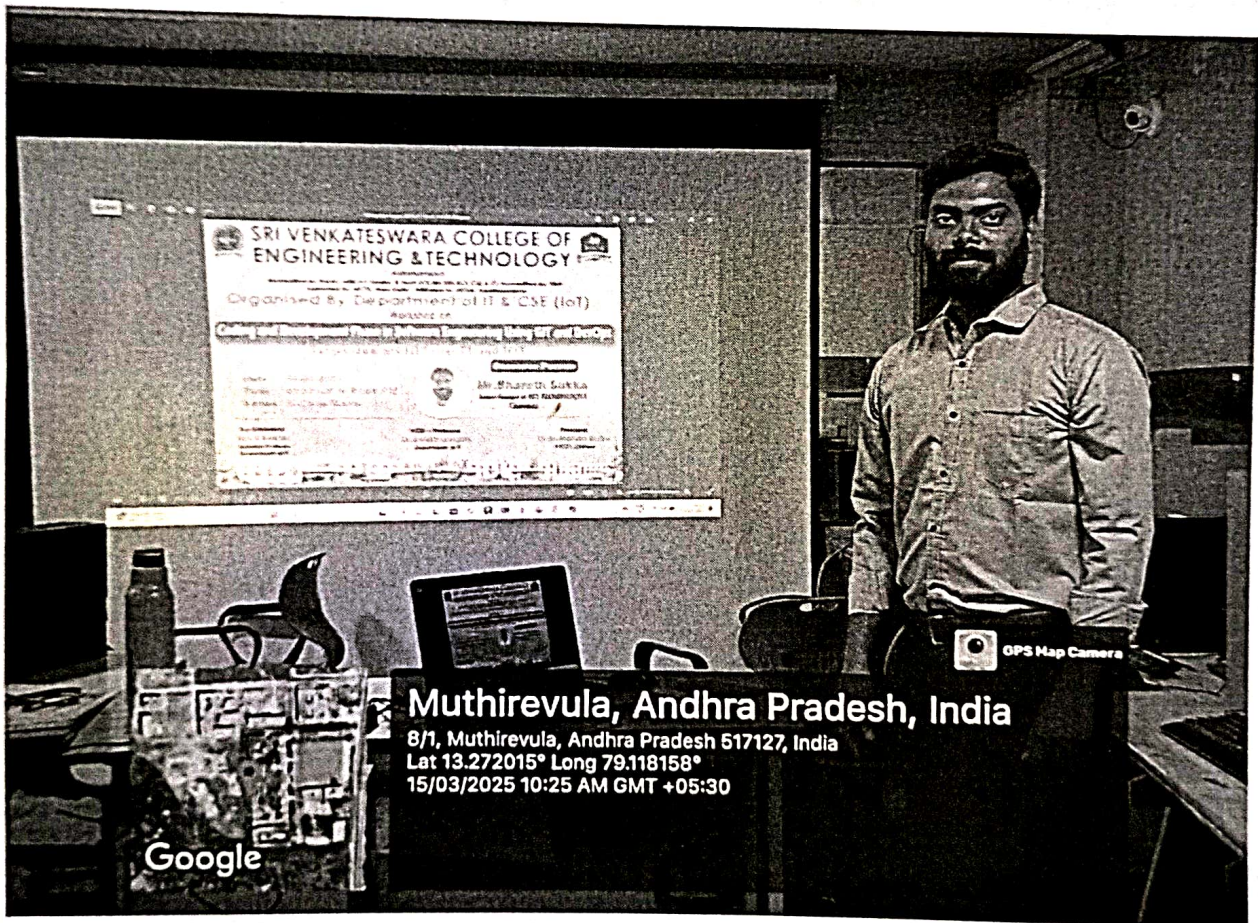
- 95% of participants rated the workshop as "Excellent" or "Good".
- 90% of participants felt that the workshop met their expectations.
- 85% of participants reported that they learned something new and useful during the workshop.

Conclusion:
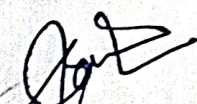
The workshop on "Coding and Development Phase in Software Engineering using GIT and DevOps" was a resounding success. The workshop achieved its objective of providing hands-on training on GIT and DevOps practices, and equipping participants with the skills and knowledge required to implement these practices in their projects.
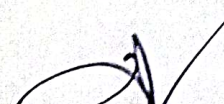
In light of the feedback and suggestions received, we plan to offer more workshops on related topics, such as Agile development and continuous integration. We also plan to invite industry experts to share their experiences and best practices and provide opportunities for participants to network and share their own experiences.

Screenshots:
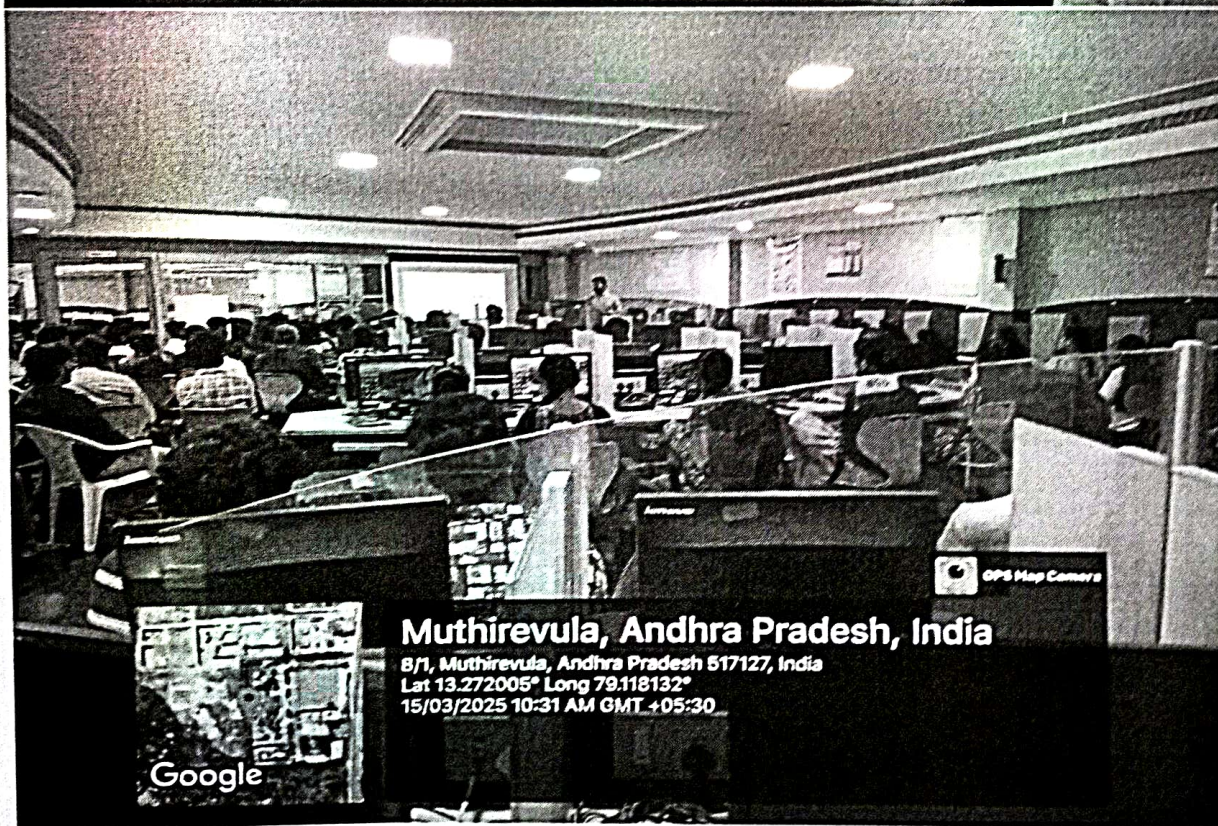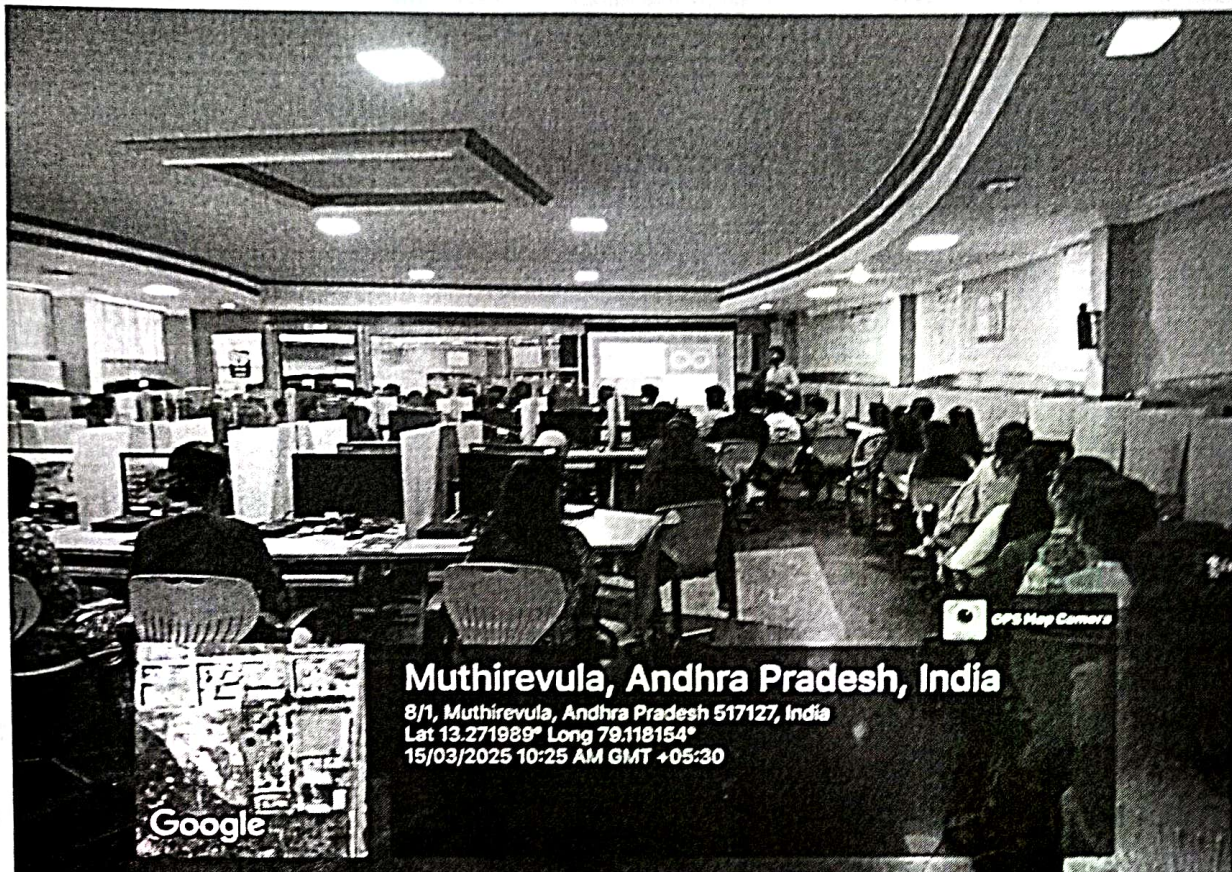
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8/1, Muthirevula, Andhra Pradesh 517127, India
Lat 13.271989° Long 79.118154°
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Muthirevula, Andhra Pradesh, India
8/1, Muthirevula, Andhra Pradesh 517127, India
Lat 13.272005° Long 79.118132°
15/03/2025 10:31 AM GMT +05:30

Co-Ordinator

HOD-IT

Coding And Development Phase In Software Engineering Using GIT And DevOps

Department of IT

Date:13.03.2025

S.No	Roll No.	Name of the Student	Signature
1	22781A1211	B. Nandini	B. Nandi
2	22781A1219	C. Anusha	C. Anush
3	22781A1257	L. Divya sree	L. Divya
4	22781A1286	S. Amal	S. Amal
5	23785A1203	K.S. Tejaswinidevi	K.S. Tejaswinidevi
6	22781A1262	M. Vyshnavi	*(signature)*
7	22781A1263	M. Sowmya	Sowmya
8	22781A1255	K. Triveni	K. Triveni
9	22781A1226	D. Kavitha	Kavitha
10	22781A1246	K. Bhavitha	Bhavitha
11	22781A1284	S. Chandana	S. Chandana
12	22781A1264	K. Tejaswini	K. Tejaswini
13	22781A1214	C. Sandhya	C. Sandhya
14	22781A1209	B. Yasmitha	B. Yasmitha
15	22781A1213	C. Mamatha	C. Mamatha
16	22781A1205	B. Domi prajwalika	B. Dom paji
17	22781A1238	K. Guna sri	Guna sri. K.G
18	22781A1215	G. Hemanth	G. Hemanth
19	22781A12A8	Jiggasa yadav	H.J
20	22781A1290	S. Reddy Pranathi	Pru
21	22781A12A2	Y. Deekshitha	Deekshitha
22	22781A1277	P. Shilpa	Shilpa
23	2078A1280	Poojitha	Poojitha

Co-Ordinator

ATTENDANCE

HOD

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Date:13.03.2025

S.No	Roll No.	Name of the Student	Signature
1)	22781A1275	P. Upendra	P. Upendra
2)	22781A12A3	Y. Sandeep	Y. G. S
3)	23785A1201	J. Prasanna kumar	J. Pras
4)	23785A1202	T. Manohar	J. Manohar
5)	23785A1205	P. Ravi kumar	P. Ravi kumar
6)	22781A1298	V. Mohan reddy	V. Mohan.
7)	22781A1292	T. Praveen Kumar Reddy	T. Prav
8)	22781A1293	T. Bharath Simha Reddy	T.
9.	22781A1295	T. Narayana Reddy	T. N
10)	22781A12A9	chhotu kumar	C.
11)	22781A12A7	Aashish Singh	A.K.
12	22781A1296	V. Bhanu prakash	V. Bhanu Prakash
13	22781A1289	S. Mazeed Mahammad	S. Mazeed.
14	23785A1206	S. Susikumar	S. Susikumar
15	22781A1217	CH. Harsha Vardhan	H.
16	22781A1264	P. Murali	Murali
17.	22781A1233	G. Srinivasulu	G.
18.	22781A1231	G. Kumar	Kumar.
19.	22781A1279	P. Venkata Ramana	P. Venkat.
20.	22781A1280	C. Poojitha	Poojtha
21.	22781A1250	Sandhya	Sandhya
22.	22781A1272	Sumiya	Sumiya
23.	22781A1297	Babiya Banu	Babiya Banu
24.	22781A1219	C. Anusha	Anusha.

Co-Ordinator

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HOD

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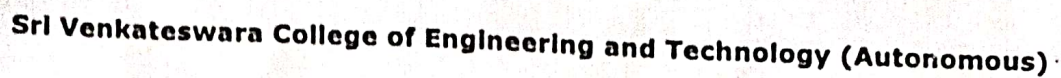
R.V.S. Nagar, Chittoor – 517 127

Workshop on
Coding And Development Phase In Software Engineering Using GIT And DevOps

Department of IT   Date:

S.No	Roll No.	Name of the Student	Signature
1.	22781A1261	M. Guru Pradeep.	M. Guru Pradeep.
2.	23785A1204	M. Thilak Kumar	M. Thilak Kumar
3	22781A1283	R. Vasanth	Rudra
4.	22781A1288	R. Balachandra	Bala
5.	22781A1241	K. Venu Gopal Reddy	
6	22781A1239	K. C Jyothi Ganeshkumar	
7.	22781A1240	K. C. Sumanth	K. Sumanth
8	22781A12A4	V. Pavan kumar	Y. Pavan
9	22781A1285	Y. GURUSAI	
10	22781A1285	Shaik. Abdul Sadik.	
11	22781A1221	kowshik.	
12	22781A1202	vasu	
13	22781A1210	Atulya	Ak

Co-Ordinator   HOD

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R.V.S. Nagar, Chittoor – 517 127

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Department of IT

Date:

S.No	Roll No.	Name of the Student	Signature
01	22781A12A7	Aashish Singh	Anf
02	22781A1812	B. Harinath Reddy	Harinath
03	22781A1266	N. Balakrishna	B.P.J
04	22781A1247	K. chandu	K.Chn..
05	22781A1244	karthik	
06	22781A1245	K. Mahendra.	
07	22781A1227	Maxuthi	Maruth
08	22781A1271	P. sohail	solaik
09	22781A1248	K. Ravi kishore	tonhu kohne
10	22781A1228	G. Mahesh	G. Mah
11	22781A1229	G. Sathya krishna	G. Sathya
12	22781A1230	G. Anil kumar	G. Anilkum
13	22781A1207	B. lokesh	leelur
14	22781A1204	B. Jagadeesh	Jagadesh

Co-Ordinator

HOD