RAMACHANDRA
COLLEGE OF ENGINEERING
AUTONOMOUS

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Accreditations
NAAC A+
NBA (EEE, Civil, ME, ECE & CSE)
ISO 9001 : 2015 Certified

One Week Workshop on DevOps

Organized by	:	**Computer Science and Engineering**
Name of the Speaker	:	**Mr. Ravichandra & Ms. Navya Charitha Sri,**
		COIGN Consultants Pvt. Ltd., Secunderabad
Designation	:	**Trainers**
Topic	:	**GIT – Version Control,**
		SonarQube – Static Code Analysis,
		Maven – Test Case Checking,
		Jenkins – Creation of Pipelines,
		Tomcat – Webserver for Creation of Pipelines
		Test Driven Development
Venue	:	**SH-003 (Smart Class Room) & SH-212 (Lab)**
Target Audience	:	**3rd Year CSE-A, B & C**
Name of the Co-Ordinator	:	**Mr. Y. Nagendra Kumar & Mr. K. Gopala Reddy**

S.NO	DATE(s)	SESSION	Students Attended
1	25-09-2023 To 30-09-2023	9.00AM -4.00PM	218

Report

1. Report in brief by Organizer / Coordinator / Convener:
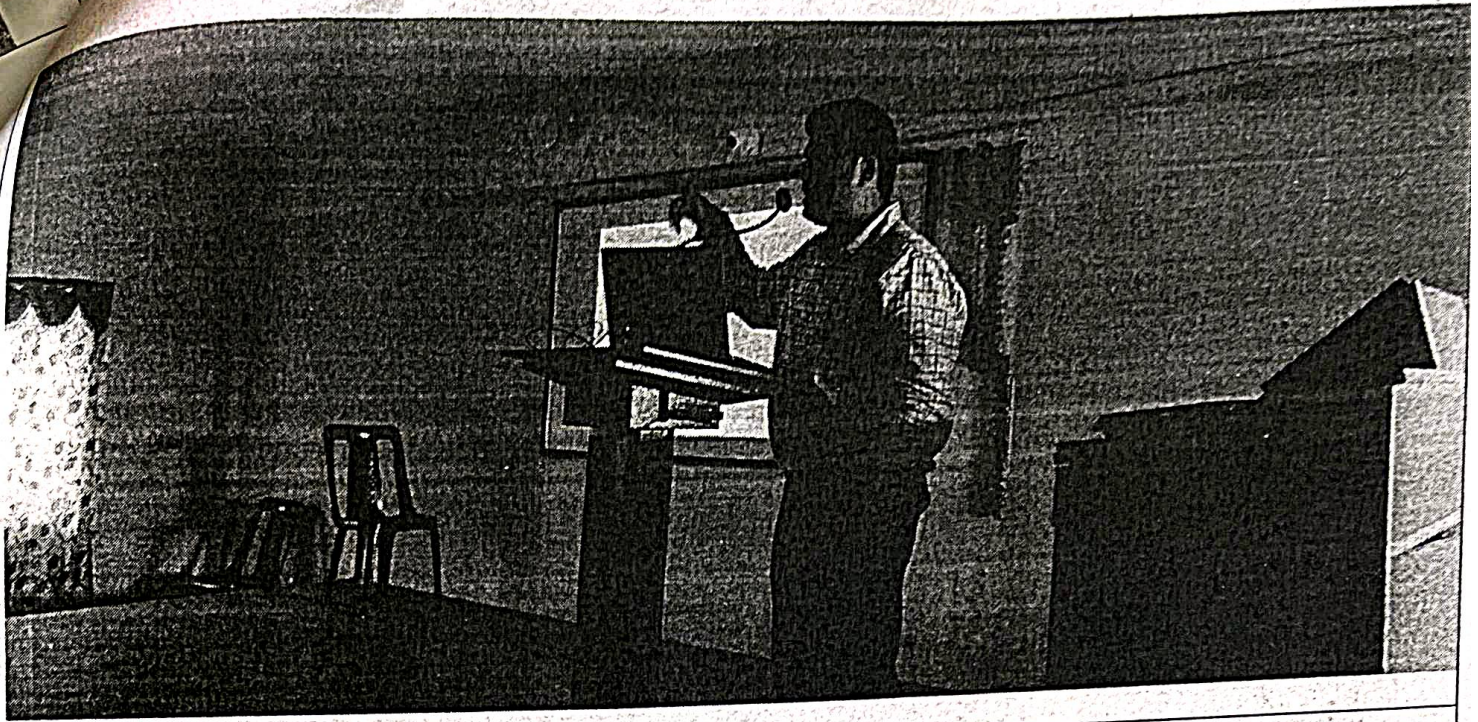
Mr. Ravichandra & Ms. Navya Charitha Sri were the resource person addressed the students related to DevOps. DevOps is a set of practices, tools and a cultural philosophy that automate and integrate the processes between software development and IT teams. It emphasizes team empowerment, cross-team communication and collaboration, and technology automation.

A DevOps team includes developers and IT operations working collaboratively throughout the product lifecycle, in order to increase the speed and quality of software deployment. It's a new way of working, a cultural shift, that has significant implications for teams and the organizations they work for.

In theory resource persons are explained about the DevOps lifecycle consists of eight phases representing the processes, capabilities, and tools needed for development (on the left side of the loop) and operations. Throughout each phase, teams collaborate and communicate to maintain alignment, velocity, and quality. They also gave hands on experience to all students on:
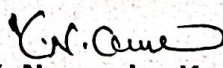
- GIT and GIT Hub for Version Control.
- SonarQube for Static Code Analysis.
- Maven for checking Test cases in Testing.
- Jenkins for creating Pipelines.
- Tomcat for Creating webservices and creating pipelines.

The Resource Person

3. Feedback from students:

The students were underwent on:

- GIT and GIT Hub for Version Control.
- SonarQube for Static Code Analysis.
- Maven for checking Test cases in Testing.
- Jenkins for creating Pipelines.
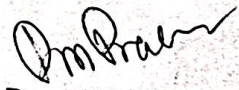- Tomcat for Creating webservices and creating pipelines.

Students were showed their interest in the interactive sessions and got clarified their doubts and learned how to create a pipeline and send mails to the developers? How to send the updated feature to the team leads to get approval for incorporation? The resource person also felt very happy to have these kinds of queries from the learners.

4. Remarks from Resource Person:

The resource person felt very have to have sessions to III B Tech I Semester CSE students, because, all the students have actively participated in both theory and hands-on sessions. He expressed his heartfelt regards to the department to have such wonderful opportunity to share his knowledge with the students. He suggested to all the participants that practice all DevOps applications continuously, since they are very useful to you in your future if you are settled as a software developer.

Mr. K Gopala Reddy
Associate Professor
Coordinator

Mr. Y. Nagendra Kumar
Assistant Professor
Coordinator

Dr. P.M. Prasuna
HoD & Dean
Convener