Department of Computer Engineering
<u>Event Report</u>

DevOps
(02/01/2024 to 06/01/2024)

Event Information
Event Type: Value added Program
Event title: DevOps
Resource Person: Dr.Aarthi B,Dr.Anindita Khade, Mr.Pradeepraj Nadar- DevOps Engineer at ImpactSure Technologies Pvt Ltd.
Event date: 02/01/2024 to 06/01/2024
Organized for: TE and BE Students
Organized by: Dr.Aarthi B, Dr.Anindita Khade
Target audience (branch & nos.): TE and BE students, 51 members
POs/PSOs mapping: PSO1,PSO2,PO12
Attachments: 1. Photographs (in JPEG/PNG) **2. Attendance report** **3. Feedback**

Event Description

The department of Computer Engineering of SIES Graduate School of Technology, Nerul, Navi Mumbai successfully organized an SDP on "DevOps" from 02/01/2024 to 06/01/2024. Industry expert for the session was Mr.Pradeepraj Nadar who is a DevOps Engineer at Impactsure Technologies Pvt.Ltd. Faculty members involved were Dr. Anindita Khade and Dr. Aarthi B.

The objective of this 48-hour long course was to explore the concepts of DevOps, paying more attention to hands-on practice, and to analyze data using different tools. The course aimed to accomplish the following outcomes:

1. To understand the fundamentals of DevOps engineering and be fully proficient with DevOps terminologies, concepts, benefits, and deployment options to meet your business requirements.

2. To obtain complete knowledge of the "version control system" to effectively track changes augmented with Git and GitHub.
3. To understand the importance of Jenkins to Build and deploy Software Applications on server environment.

4. To understand concept of containerization and Analyze the Containerization of OS images and deployment of applications over Docker.
5. To understand concept of Kubernetes and minikubes.

The session was 6 days long. Day wise Topics covered are as follows:

1. **Introduction to DevOps**

2. **Introduction to Version Control System**

3. **Introduction to Continuous Integration and Continuous Monitoring**

4. **Introduction to Cloud Computing**

5. **Introduction to AWS**

6. **Introduction to Containerization**

7. **Kubernetes**

8. **Static Application Security Testing (SAST)**

Students were given programming assignments daily to judge their understanding of the concepts. All Students were given problem statements for Internships to be completed within the next 15 days.

1. Photographs (in JPEG/PNG)

2. Attendance report (Scanned copy)

3. FeedbackReport (Scanned copy)

Impact Analysis:

Most students successfully completed the quizzes and assignments given to them. Almost all the students submitted the assignments on time. The program saw a good attendance overall. At the end of the course students were able to understand the need of DevOps and overall idea of various DevOps tools available in market. Overall impact was good.