SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust® Udupi)

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Vishwothama Nagar, Bantakal, 574115 Udupi District, Karnataka

SMVITM

Activity Request form

Academic Year	2021-22
Department Section Committee Cell	Department of CSE in association with ISTE
Name of the Activity	Two days workshop on **DevOps and AWS Industrial tools**
Target Audience	6th and 8th sem students of CSE
Activity Date(s)	20th to 21st May 2022

Time	9.30 am to 4.30 pm

Venue	CCC/CAED Lab, Admin Block
Resource Person	**Mr. Pradeep Kumar T V**, Lead Engineer, **HCL Technologies Ltd.**

Expected expenditure

S. No.	Description	Amount
1	Honorarium for Speaker (total for 2 days)	10000
2	TA for the speaker	2000
	Total	**12000**

Source of fund (Sponsorship/Registration fee)

S. No.	Description	Amount
1	ISTE	12000
	Total	
Financial support required from the Institute		NIL

Sneha N.S (CSE)

Name of the Coordinator

9/5/22

Signature with date

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Website: www.sode-edu.in | Tel: +91 820 258 9182/9183 | Mobile: +91 7483031199

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

In association with

ISTE STUDENT CHAPTER

is Organizing a

Two days workshop on

DevOps and AWS Industrial Tools

MAY

20th & 21st

FOR REGISTRATION

Pradeep Kumar T V
Lead Engineer
HCL Technologies Ltd.

Maximum participants allowed : 35
Registration fee : Rs 150/- per participant

"Participants have to bring their own Laptops"

NOTE : Hardcopy of the certificate will be given to all participants who attend the complete workshop and clear the assessment at the end of the session.

Vishwothama Nagar, Udupi
BANTAKAL - 574 115

HOD - CSE

Dear students,

Department of Computer Science and Engineering in association with the ISTE Student Chapter is organizing **two days** workshop on **"DevOps and AWS industrial tools"** for students of 6th and 8th semester CSE on 20th and 21st May 2022. from 9.30 am to 4.30 pm.

The resource person will be **Mr. Pradeep Kumar T V, Lead Engineer, HCL Technologies Ltd.**

Guidelines for the workshop:

1. Registration through the **Registration link** shared here is MANDATORY.
2. The Registration fee of **150 rupees** must be paid for confirming the registration, **after you have filled the registration form online**, to Ms. SNEHA N S, Asst. Prof, Dept. of CSE on or before **14th May 2022.** Selection will be made based on first cum first serve basis.
3. Maximum number of participants: 35
4. Participants must bring their **OWN LAPTOPS TO WORK WITH THE TOOLS**
5. **HARD COPY of the Certificate** with the Signature of the Resource person will be provided to all the participants who attend all the sessions

Kindly go through the flyer and Contents to be covered in the two days Attached here.

Highlights of the workshop:

* After the workshop, further materials will be provided to work at your leisure
* Exposure to the most relevant industrial tools, which will be helpful for placements for 6th sem students and also basic knowledge for 8th sem students.
* Receive a Hard Copy of the certificate.

For further Queries regarding the workshop, Kindly contact Ms. SNEHA N S, Asst. Prof, Dept. of CSE

REGISTRATION LINK :

https://forms.gle/J6DALaYr3XkYCBdH6

Thanks & Regards

Dr. Nagaraj Bhat
        B.E., M.Tech., Ph.D.
Associate Professor and Head
Department of computer science and Engineering

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Two days workshop on "DevOps and AWS Industrial Tools"

Contents that will be covered:

DevOps Introduction

- Traditional Software Development Life Cycle
- Waterfall Model
- About Agile Methodology
- What is DevOps?
- DevOps Tools
- What is CI and CD
- DevOps as a profession – DevOps Engineer

AWS

- Introduction to Cloud Computing
- Introduction to AWS Cloud Computing
- Understanding AWS Regions & Availability Zones.
- Understanding IP Addressing & Subnetting.
- AMI - Amazon Machine Image
- EBS – Elastic Block Store?
- Snapshot
- Security Groups
- IP Addressing
- IAM
- Users & Policies
- ELB Elastic Load Balancer
- Auto Scaling
- What is a VPC(Virtual Private Cloud)

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DevOps Tools

Git:

- Introduction to Git version control application
- Git Repositories
- Adding, Committing
- GitHub Branches, Merging
- Understanding stash, diff, rebase, fetch, pull, push.

Maven:
- Maven Life Cycle
- Pom.xml

Docker:

- Introduction to Containers & Docker
- Docker architecture & Docker repositories
- Pull, Create & Upload Docker images
- Using Dockerfile

Kubernetes:
- Introduction to Kubernetes
- Kubernetes Architecture
- Deploying PODS, Services, Deployments

Ansible:
- Introduction to Ansible
- Ansible Playbooks
- Ansible Roles

Jenkins:
- Introduction to Jenkins
- Features & Master-Slave Architecture of Jenkins.
- Jenkins Job, Pulgins.
- Scripted and Declarative Pipelines.

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ACTIVITY REPORT

Academic Year	2021-22
Name of activity	Two days workshop on DevOps and AWS Industrial tools
Resource Speakers	**Mr. Pradeep Kumar T V**, Lead Engineer, **HCL Technologies Ltd.**
Date	20th May to 21st May 2022
Time	9 am to 4.30 pm
Venue	CCC/CAED Lab, Admin Block
Target Audience	5th and 8th sem students of CSE
No. of participants	40

Department of Computer Science and Engineering in association with ISTE Faculty Chapter of SMVITM, organized Two Days Workshop on "DevOps and AWS Industrial Tools" from 20th May to 21 May 2022. Mr. Pradeep Kumar T V, Lead Engineer at HCL Technologies Ltd. was the resource person for the event.. Around 40 students from all the 5th and 8th semester CSE participated in the Workshop.

The event was inaugurated on the morning of 20th May in the presence of the Mr. Pradeep Kumar T V, the resource person, Prof. Dr. Thirumaleshwara Bhat - the Principal of the college, Dr. Nagaraj Bhat - HOD of CSE and Ms. Sneha N S - Senior Assistant Professor, Department of CSE along with other teaching and non-teaching staff members and registered participants.

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The resource person started with AWS (Amazon Web Services). He illustrated the concept of Virtual Private Cloud and its various terminologies. Then a hands-on demonstration was made on Git and GitHub - a tool for Version Control and Collaboration. Few Linux Shell Commands were also demonstrated. On the second day the resource person gave a hands-on demonstration on Docker and Kubernetes in Play with Docker and Play with Kubernetes, a Web based tool. Downloading images from DockerHub and Containerizing them with Docker was demonstrated. The speaker also told about various other Docker commands like docker swarm, etc. Then the speaker demonstrated Jenkins - a tool for Continuous Integration and Continuous Deployment (CI/CD). He showed the participants how to set up Jenkins in their systems and demonstrated it by taking a real world example. He also briefly talked about Ansible - a configuration management tool. The speaker concluded the session by showcasing various job opportunities in numerous IT companies through various career portals like Naukri. The event was concluded on 21 May 2022. Various students shared their feedback.

Ganesh Hathwar B S of 8th semester CSE helped the organizing team in designing the flyer for the event.Shrutha V Bhat from 6th semester CSE designed the certificate. Mr.st Chethan R Institutional Coordinator ISTE Faculty Chapter, Dr. Nagaraj Bhat HOD Computer Science and Engineering Department, and Ms. Sneha N S faculty from Computer Science and Engineering Department played a major role in the smooth conduction of the event.

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Latitude	13.254405
Longitude	74.785144
Venue	CAED Lab – Admin Block
Date	20/05/2022

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ISTE Workshop on "DevOps and AWS industrial Tools"
Resource Person: Pradeep Kumar T V, Lead Engineer, HCL Technologies Limited
20th and 21st May 2022

Attendance Sheet for 20th May 2022, Friday

Sl. No.	Name	Email Address	USN	Department	Sem	Sec	Morning	Afternoon
1	Manvitha Ananth Nilekani	manvitha.19cs055@sode-edu.in	4MW19CS055	CSE	6	A		
2	Manish Prakash Shriyan	manish.19cs052@sode-edu.in	4MW19CS052	CSE	6	A		
3	Karthik V Shetty	karthik.19cs046@sode-edu.in	4MW19CS046	CSE	6	A		
4	Abhinava Karanth	abhinava.19cs001@sode-edu.in	4MW19CS001	CSE	6	A		
5	Manish Kumar HJ	manish.19cs051@sode-edu.in	4MW19CS051	CSE	6	A		
6	Karthik H amin	karthik.19cs045@sode-edu.in	4mw19cs045	CSE	6	A		
7	Akshay kumar	akshay.19cs007@sode-edu.in	4mw19cs007	CSE	6	A	Akshay	Akshay
8	Jnanesh B S	jnanesh.19cs042@sode-edu.in	4mw19cs042	CSE	6	A		
9	Eshaan U Kundar	eshaan.19cs034@sode-edu.in	4MW19CS034	CSE	6	A		

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27	Rakshith H Kalmadi	rakshith.19cs074@sode-edu.in	4MW19CS074	CSE	6	B		
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38	Sharana K U	sharana.18cs070@sode-edu.in	4MW18CS070	CSE	8	B	Sharan	Sharan

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ISTE Workshop on "DevOps and AWS Industrial Tools"
Resource Person: Pradeep Kumar T V, Lead Engineer, HCL Technologies Limited
20th and 21st May 2022

Attendance Sheet for 21st May 2022, Saturday

SI. No.	Name	Email Address	USN	Department	Sem	Sec	Morning	Afternoon
1	Manvitha Ananth Nilekani	manvitha.19cs055@sode-edu.in	4MW19CS055	CSE	6	A		
2	Manish Prakash Shriyan	manish.19cs052@sode-edu.in	4MW19CS052	CSE	6	A		
3	Karthik V Shetty	karthik.19cs046@sode-edu.in	4MW19CS046	CSE	6	A		
4	Abhinava Karanth	abhinava.19cs001@sode-edu.in	4MW19CS001	CSE	6	A		
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6	Karthik H amin	karthik.19cs045@sode-edu.in	4mw19cs045	CSE	6	A		
7	Akshay kumar	akshay.19cs007@sode-edu.in	4mw19cs007	CSE	6	A	Akshay	Akshay
8	Jnanesh B S	jnanesh.19cs042@sode-edu.in	4mw19cs042	CSE	6	A		
9	Eshaan U Kundar	eshaan.19cs034@sode-edu.in	4MW19CS034	CSE	6	A		

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28	Vishal	vishal.19cs117@sode-edu.in	4mw19cs117	CSE	6	B		

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36	SMITHA	smitha.18cs081@sode-edu.in	4MW18CS081	CSE	8	B		
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CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

BHARGAVRAM UDUPA T

bearing the USN 4MW18CS018 from FOURTH Year CSE for
participating in the two days workshop on "DevOps and AWS Industrial Tools"
organised by the ISTE Student Chapter and Department of Computer Science and
Engineering, SMVITM, Bantakal on the 20th and 21st of May 2022.

Mr. Pradeep Kumar T V	Dr. Nagaraj Bhat	Prof. Dr. Thirumaleshwara Bhat
Lead Engineer	HOD of CSE	Principal
HCL Technologies Ltd.	SMVITM, Bantakal	SMVITM, Bantakal

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ಬಂಟಕಲ್ಲು ತಾಂತ್ರಿಕ ಕಾಲೇಜು: ಕಾರ್ಯಾಗಾರ

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SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT
INDIAN SOCIETY FOR TECHNICAL EDUCATIO
STUDENT

[illegible]

Principal
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