

## About the Institute

Walchand College of Engineering Sangli (WCE) was established in 1947 and aided by the Govt. of Maharashtra, is one of the oldest and premier engineering institutions in India. With a rich history of over 70 years and a beautiful campus of over 90 acres, we are providing transformational learning experience in various disciplines of engineering.

WCE offers 6 UG programmes in Civil, Electrical, Mechanical, Electronics, Information Technology and Computer Science and Engineering and 10 PG programmes. It also offers Ph.D. programs under Shivaji University, AICTE Doctoral Fellowship (ADF) and under Quality Improvement Program (QIP) scheme of Ministry of Human Resource Development (MHRD). At present around 1900 students are studying in various B.Tech. programmes, 480 students in M.Tech. programmes and around 75 scholars are pursuing their Ph.D. WCE is affiliated to Shivaji University and is approved by AICTE, New Delhi. The institute is autonomous since 2007.

## About the Department

Department has been established in 2001 with Under-Graduate (UG) programme and then Post Graduate (PG) was started in 2012. Both UG and PG programmes are NBA accredited. Department offers Certifications for Minor in Artificial Intelligence-Machine Learning (AI-ML) and Web Development (WD), Honor in Block-chain Technology (BCT), Software Project Development (SPD), IT System & Management (ITSM) and Value Added Courses (VAC) like Cloud Computing: Industry Driven Approach, Machine Learning using Python and Responsive Web Design. Department has consistent performance in academics and placement. Department has highly equipped and updated nine laboratories for UG and PG. Department best practices are- e-learning motivations through Open Electives and professional Electives form MOOC (massively open online courses), 24x7 Lab availability lab with 800Mbps internet facility, use of Free & Open Source Software and Tools to learn the curriculum.

# Walchand College of Engineering

(Government Aided Autonomous Institute affiliated to Shivaji University)

## Vishrambag, Sangli

## One Day Workshop

on

# Docker: Free and Open Source Virtualization Tool

16<sup>th</sup> October 2021



### Coordinators

Miss. A. M. Khot & Dr. A. J. Umbarkar

### Head of the Department

Dr. A. J. Umbarkar

## Department of Information Technology

[www.walchandsangli.ac.in](http://www.walchandsangli.ac.in)

## About the Course

The workshop aims to create awareness among the UG and PG students, researcher scholars about various concepts of Docker, Docker container and Kubernetes. Applications of Docker containers and Kubernetes in industry and research, Use of containerization in Agile Software Engineering, FOSS (Free and Open source software), cloud computing, etc.

Workshop will cover difference between Virtual Machine (VM) and Docker containers. In workshop, hands-on on Docker commands, use of Docker hub/commands and its usage will be demonstrated and practiced. Hands-on on customization of Docker containers/image, Docker files.

## Course Contents

- Introduction of Virtualization, OS Virtualization
- Introduction of Docker Concept and Hand-On
- Docker Containerization and Hand-On
- Kubernetes
- Kubernetes practice

## Link To Join/Registration

Registration Link: <https://forms.gle/GFXmmcaeRyjxvWzSA>

Link To Join : <https://meet.google.com/arp-mnga-gdo>

Note: Student can join the session from the *walchandsangli.ac.in* email-id or registered email-id.

## Course Date/Time

**Saturday, 16th October 2021(10am Onwards)**

All participants will get the e-certificate after completion of course and quizzes on their registered email.

## Who can Attend?

- Final Year B.Tech. Information Technology Students
- Committee members of IT/CSE student associations (SAIT/ACESS)
- Committee members of Walchand Linux User Group (WLUG)
- Research Scholars/ PG CSE/CS-IT Students
- **Outside Institute 20 participant on first come first serve basis**

## Speaker/Trainer

- **Mr. Gaurav Ashtikar**

*Applied AI Consulting, Pune (Alumni 2013 Batch, WCE, Sangli)*

## Schedule

- Session 1 : Introduction of Speaker and preamble of workshop  
Session 2 : OS Virtualization Basics  
Session 3 : Docker concept and its hands on and Quiz1

### ***Lunch Break***

- Session 4 : Container examples and uses  
Session 5 : Kubernetes concept and its hands on

### ***Tea Break***

- Session 6 : FOSS practical Guideline/ & its Industry perspective  
Session 7: : Feedback and Quiz2