Smart Internz   IBM   AICTE – All India Council for Technical Education   Gurukula Kangri

CLOUD APPLICATION DEVELOPMENT WITH REDHAT OPENSHIFT

Date :
25 September, 2023 TO 29 September, 2023

Time :
10:00am – 5:00pm

Gurukula Kangri (Deemed to be University),Haridwar

https://www.gkv.ac.in/?post_type=departmentalnews&p=51929&preview=true

REGISTER NOW

VENUE

Accommodation will be provided on Twin sharing and payment basis (if required).

https://forms.gle/KgY8kkCefKfFFwUr8

FILL THIS FORM

Faculty of Engineering and Technology, Haridwar

https://goo.gl/maps/W2QdT6ENnSWhxFvG8

Mode of FDP : CONTACT

Organizing Secretary

Dr. Nishant Kumar
📞 8979798008

Co-Organizing Secretary

Mr. Sumit Bansal
📞 7355891000
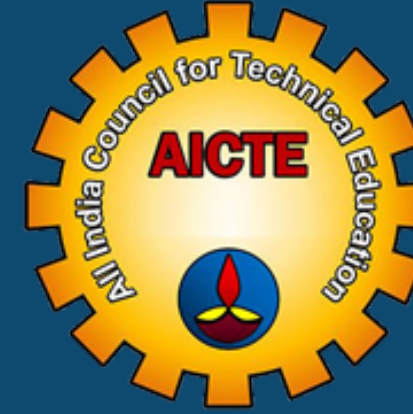
Detailed Programme Schedule

Topics	Days
Introduction to Modern App Development Importance of App Modernization, Important Modernization Technologies **Introduction Red Hat** Products of Red Hat and Architecture, Red Hat's approach to application modernization? **Developer Sandbox for Red Hat OpenShift** Get started in the Sandbox, Introduction to OpenShift Dedicated & Architecture concepts Working with features of RedHat Dedicated &Underding the features like observe,ConfigMaps,Secrets and search **Red Hat CodeReady Workspaces** Learn launching the workspaces, Working on In-browser IDE and create the projects, Edit & test the app code in workspace	Day-1
Hands-on with Web-app Development HTML Basics, HTML with CSS, JavaScript **Introduction to Flask** Python and Flask Environment Setup, Flask Basics and Routes, Dynamic Routing, Forms,HTTP Methods, Templates and Static Files, Redirect and Errors, Cookies and Session	Day-2
IBM Object Storage Introduction to IBM Object Storage & Introducing python SDK for IBM Object Storage, Creating a new bucket, Uploading files to the bucket & Update and delete the files in bucket, Connecting Flask application with Cloud Object Storage **IBM Watson Assistant** An Introduction to Watson Assistant & Learning about Intents, Entities, Dialog Building a use case with IBM Watson Assistant Learn integrating Bot with Flask App	Day-3
IBM DB2 Introduction to IBM DB2 Database, Introducing python SDK for IBM DB2 Database, Connecting Flask app to DB2 Database, Working on Insert, Update, Delete, Retrieve, Learn creating micro-services with CRUD operations **Containerize your application** Intro and Basics of Containerization, What is a Container? Containerization vs. Virtual Machine, Docker Installation Main Docker Commands, Building your own Containerized Image for Flask Application	Day-4
Kubernetes Introduction to Kubernetes, Understand the main Kubernetes Components Kubernetes Architecture, Learn Kubernetes YAML Configuration File Learn to deploy with application with configuration file **Deploy the application** Deploy the application using 3 different techniques in OpenShift - Using a container image, - Using a Git repo, - Import from local YAML file **Mini Project**	Day-5