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CONT_22CAP-745 :: DEVOPS PROCESS AUTOMATION LAB

Course Syllabus and Suggestive Readings

Unit-I	Implementing Version control tool (Git, Github) Implementing branches and tags Implementing build automation tool (Maven)	Contact Hours: 20
Experiment no. 1.1	• Installation of Git • Common Git Commands • Configuring Git • Creating Repositories • Creating a Commit	
Experiment no. 1.2	• Visualising Branches • Branch Naming Conventions • Creating a new Branch • Handling Merge Conflicts • Handling tags • Force push	
Experiment no. 1.3	• Install and configure Apache Maven • Create sample project by implementing maven • Dependency resolution using POM.xml • Implementing maven repository	
Experiment no. 1.4	• Install and configure Chef Workstation, Chef Server and Chef Node. • Creating admin chef user and organization.	

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	management using Chef. Installation and configuration of Puppet Implementing Configuration management.	
Experiment no. 2.1	• Creating Cookbooks and Recipes • Installing Management Console for Chef Server • Configuration of Starter Kit for WorkStation • Validating the Connection b/w Server and Workstation • Uploading the Cookbook • Adding a Node • Managing Node Run List	
Experiment no. 2.2	• Installation of puppet • Configuration of master node • Configuration of agent node	
Experiment no. 2.3	• Creating puppet manifest file • Implementing configuration management using master node	
Experiment no. 2.4	• Install and configure Teamcity • Configuration of database	
Unit-III	Implementing CI/CD using Teamcity Installation and configuration of Nagios	Contact Hours: 20
Experiment no. 3.1	Configure and Run Your First Build	
Experiment no. 3.2	• Install and configure Nagios Server • Creating hostgroups.cfg file • Create Nagios config check script • Adding users to Nagios • Streamlining setup with templates.cfg • Adding servers in Nagios to be monitored	

TEXTBOOKS/REFERENCE BOOKS

Textbooks:

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Enterprise, Wiley IBM Press.

T2   *Jennifer Davis & Katherine Daniels, Effective DevOps: Building a Culture of collaboration, Affinity and Tooling at Scale, O'Relly Media, Inc.*

T3   *Paul Swartout, Continuous Delivery and DevOps, Packt Publishing.*

Reference Books:

R1   *Aruna Ravichandaran, DevOps for Digital Leaders, CA Press Apress.*

R2   *Nathaniel Felsen, Effective DevOps with AWS, Packt Publishing Ltd.*

R3   *Michael Duffy, DevOps Automation Cookbook, Packt Publishing Ltd*

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