

Devops

Syllabus

1. Software Development Life Cycle ,Design and Architectural Engineering,Object Oriented Analysis and Design,Introduction to Agile development model,Introduction to Atlassian Jira,Introduction to DevOps,Microservices,Fragmentation of business requirement,Containerisation, docker,Container life cycle,YAML,Docker Swarm and Docker Stack , Kuberntes,Istio Service Mesh,delivery pipeline,Jenkins,Selenium integration with Jenkins,Developing an application in a team, code versioning system,
2. Introduction Git,
 - Introduction Git repository and git structure,
 - Adding code to git,
 - Introduction to GitHub,
 - Creating pull requests,
3. Introduction to software testing, Verification and validation,Principles of software testing,Introduction to STLC and V Model, Tools used for automation testing,Introduction to testing methods,Introduction to functional testing,Introduction to non-functional testing,Introduction to Selenium,Introduction to TestNG, TestNG annotations,HTML test result reporting,
4. Introduction to Cloud,
5. Introduction to :
 - Virtualization,
 - Containerisation ,
 - Cloud Computing,
 - Cloud SPI Model,
 - Cloud Computing Types,
 - Cloud Security,
 - Virtualization,
 - Hardware Virtualization,
 - Para-Virtualization,
 - Cloning,
 - Snapshot and Template,Containerization,
 - Operating System Virtualization,
 - Cloud architecture,
 - Deployment models,Services provided by Cloud ,
 - Cloud development best practices,
 - Introduction to AWS