



# DevOps Intro

8  
Academic Hours

# DevOps Intro

## Overview

DevOps is a big buzz word those days, many companies and organizations are aiming towards having a DevOps as part of their development process.

DevOps is combination of methodologies, different tools but mainly the process as whole piece, end to end. This course will take us in to the Agile & DevOps, we will get familiar with Agile and how to use it with DevOps teams to increase productivity.



### Target Audience

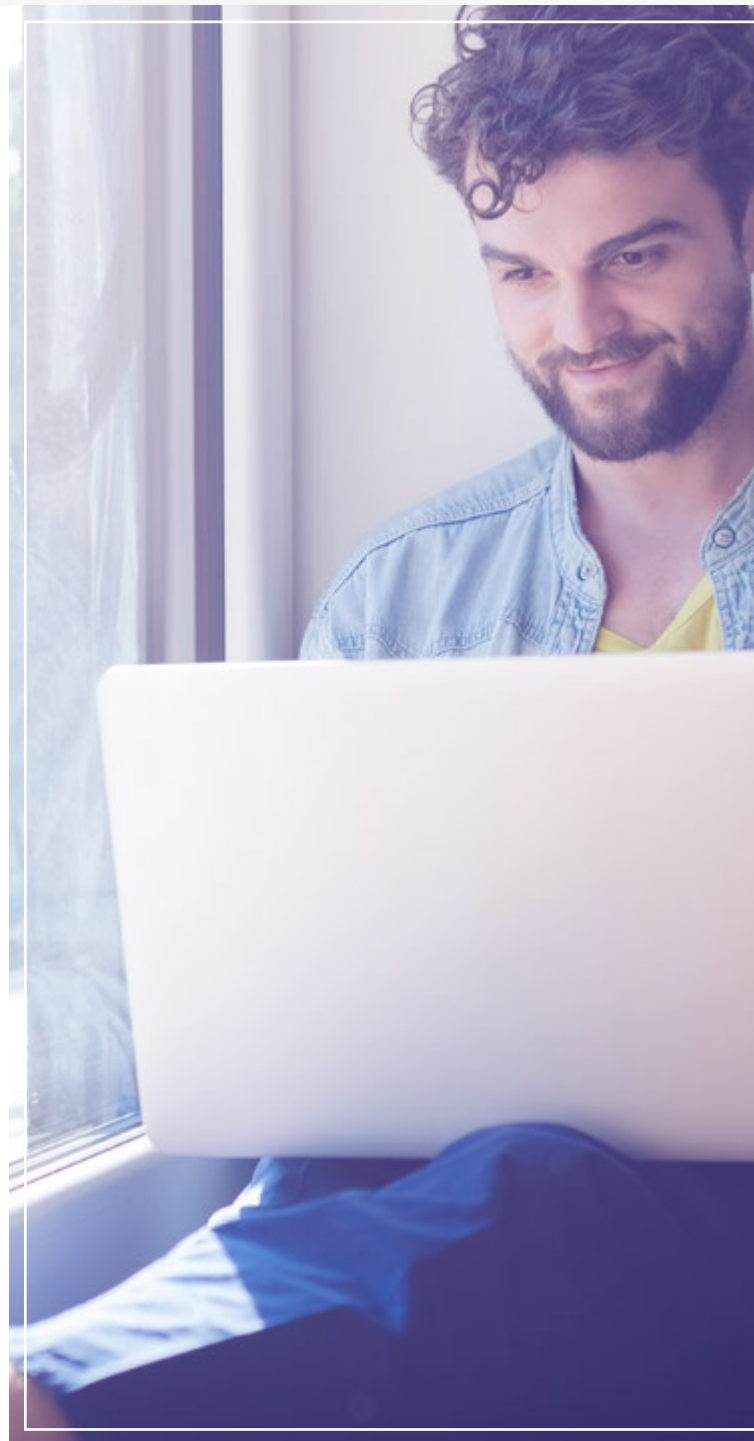
This course is for anyone who is interested in DevOps.



### Objectives

The course will cover

- What is CI/CD/CD?
- What is Agile and why is it a leading methodology for development those days.
- What is DevOps?
- Overview of the different and most common tools
- DevOps Team & Agile
- Best practices for improving productivity and visibility





## Content

### Module 01 Intro

- | History
- | Agile
- | Sprints
- | What is DevOps
- | Dev vs Ops

### Module 02 DevOps in nutshell

- | Terminology
- | Concept
- | Planning
- | CI/CD in deep
- | Monitoring / Feedback loop
- | Key features (Cycles, pipelines)

### Module 03 Tools

- | Git (hooks, Pull request / verigreen)
- | Jira
- | Jenkins + Blue Ocean/ TavisCI / Bamboo
- | Docker
- | Chef / Puppet / Ansible
- | Nexus / Artifact
- | Sonar cube
- | Selenium

### Module 04 Tips Tricks & beyond

- | Best practices
- | How to keep your pipeline green
- | Monitoring
- | Choosing the right tools
- | How to improve build time and quality

### Module 05 Demos

In this section we will demonstrate END to END demo of the CI/CD process using some of the tools we discussed above.

We will see the life cycle of bug/feature in throw the eyes of the DevOps engineer and how we build, test and deploy the content with a full transparency to the developer & to R&D.



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