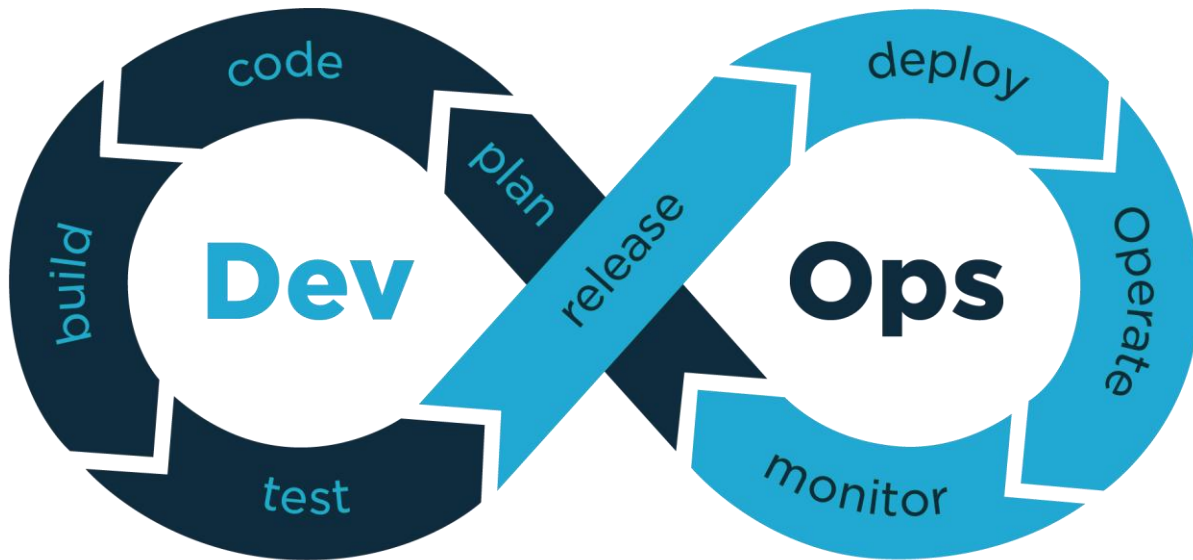


Online Internship & Training Program



## DevOps – Cloud Computing

30 Hours

Job oriented exhaustive program

# Online Internship & Training Program

Official Partner



**EISYSTEMS SERVICES**

FF-113, Express Greens Plaza, Sector 1, Vaishali, Ghaziabad  
Delhi NCR – 201010 - India

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## Online Internship & Training Program

### About EISystems

EISystems Services is a leading Indian technology identity with operations in 16 states and union territories of India. EISystems (We call it EISys) offers computer forensics, automobiles, robotics and socialmedia related solutions for enterprises and student community. Our retail domain "Robokwik" have been in among top self learning products provider brands in India. We have trained about 70000 students and impacted around 2 lakhs students through our various outreach initiatives since our founding.

### Our Clientele

Some of the colleges where we had already felt our presence are given below:-

Indian Institute of Science, Bangalore  
Indian Institute of Technology, Bombay  
Indian Institute of Technology, Delhi  
Indian Institute of Technology, Madras  
Indian Institute of Technology, Kanpur  
Indian Institute of Technology, Roorkee  
Indian Institute of Technology, Guwahati  
Indian Institute of Technology (Banaras Hindu University), Varanasi  
Indian Institute of Technology, Indore  
Indian Institute of Technology, Jodhpur  
Indian Institute of Technology, Hyderabad  
National Institute of Technology, Tiruchirappalli  
National Institute of Technology, Warangal  
National Institute of Technology, Calicut  
National Institute of Technology, Patna  
National Institute of Technology, Jalandhar  
National Institute of Technology, Jaipur  
National Institute of Technology, Durgapur  
National Institute of Technology, Surat  
National Institute of Technology, Allahabad  
Indian Institute of Information Technology, Allahabad  
ABV- Indian Institute of Information Technology & Management, Gwalior  
PDP- Indian Institute of Information Technology & Management, Jabalpur  
College of Engineering Guindy, Anna University, Chennai  
PSG College of Technology, Coimbatore  
JNTUH College of Engineering, Hyderabad  
SRM University

and more than 100 engineering colleges across India.

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## Online Internship & Training Program

### Prerequisites

Participants from 1<sup>st</sup> year/ 2<sup>nd</sup> year / 3<sup>rd</sup> year / 4<sup>th</sup> year of CSE/IT/MCA/BCA/BSc IT/ECE branch will get more benefited after joining this program. It is important to note that this is not a basic level program.

### What is required during training program?

Here's the checklist

1. A laptop & smartphone with Microsoft Windows configuration.
2. Laptop Charger/ Adapter for charging purpose.
3. USB Mouse for designing purpose.
4. Internet Connectivity for Smart Phone & Laptop

### Post Training Deliverables

Every participant will get all under mentioned deliverables

1. 30 hours online training by specialized trainer.
2. Certificate of Internship from Eisystems Services & Technex IIT (BHU) Varanasi (Soft Copy)
3. Classroom Notes & Study Material (Soft Copy)
4. Guidance for Entrepreneurship in chosen field or employment support (if asked).
5. Chance to assist our trainer in our workshop(s) at IISc, IITs, NITs etc.

### Fees & Discounts

There are multiple type of discount(s) available as mentioned below:-

#### Category 1: Single / Individual Entry

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 2000 per participant only
Third Installment	Rs. 3000 per participant only
<b>Total Fees</b>	<b>Rs. 6000 per participant only</b>

#### Category 2: Group Entry (2-3 Members Group)

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 2000 per participant only
Third Installment	Rs. 2400 per participant only
<b>Total Fees</b>	<b>Rs. 5400 per participant only</b>

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### How to pay Confirmation fees?

The payment of registration fees can be made using undergiven modes:-

#### Online Mode

Credit Cards / Debit Cards  
Net banking  
Ola Money  
PayTM / Google Pay / PhonePe

Please visit [www.eisystems.in/sitp/payment.php](http://www.eisystems.in/sitp/payment.php) for instant payment & more details.

### Course & Content

All of the sessions will be practical oriented, so it will be really great if participant(s) can look on the syllabus which we are going to cover during training days.

#### Session 1

##### Introduction Of Cloud Computing

Introduction of computing and its model  
Desktop Computing Model  
Client –Server Computing Model  
Cluster Computing Model  
Grid –Computing Model  
Cloud-Computing  
Shared Hosting, VPN and Dedicated  
Cloud-Computing Services  
Cloud Services Provider Company  
Role of Cloud Computing in Various Engineering Domain  
Future scope of Cloud-computing in Various Field Like IOT,  
Machine Learning And Artificial Intelligence  
Public Cloud  
Private Cloud  
Hybrid Cloud

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### Session 2

#### Introduction to GitHub

- Introduction of GitHub
- Repository
- Creating Repository
- How to use Github Repository

### Session 3

#### IBM Cloud

- Introduction to IBM Bluemix
- Creating Free account in Bluemix
- Data centre Region
- Introduction about Free Tier Account
- Introduction of Bluemix DashBoard
- Various Services available in IBM Bluemix
- Cloud Foundry
- Bluemix DevOps
- Tool chain
- Delivery Pipeline
- Cloudant
- Bluemix DevOps
- Bluemix Web IDE
- Fundamentals of building and deploying your application in the Cloud with IBM Bluemix.

### Session 4

#### Installing and Working with Cloud Foundry using CLI

- Installing CLI
- Introduction of Basic Command
- Working With CLI
- Login into Bluemix Account by CLI
- Deploy /Hosting WEB using Cloud Foundry
- Deploying Multiple Webpage in single space
- Accessing our web application from any where

### Session 5

#### Bluemix DevOps

- Bluemix Devops Service
- Continous Delivery
- Working with Tool chain
- Creating Tool chain
- Creating Delivery Pipeline
- Creating and Deploying web page using web IDE

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### Session 6

#### Working With IBM Bluemix and Eclipse

- Configuring Eclipse for IBM Bluemix
- Configuring Tomcat Server
- Creating and Deploying war file into Bluemix cloud using Eclipse

#### Working With Cloudant

- Basic Structure of Cloudant
- JSON
- Creating Live Data Base Using Cloudant NOSQL Database
- Creating JSON object and Array
- Adding Cloudant Database into application

#### Mobile Foundation

- Introduction of Mobile Foundation
- Creating Server using Mobile Foundation
- Linking Mobile Foundation with android Application

### Session 7

#### Node-Red

- Introduction to Node-red
- Installing Node-red
- Node-Red Basic Command
- Input node, Output Node, Function Node ,Template etc
- Implementation of Various Type of Node
- Sending and Receiving HTTP Request and Response Using NodeRed
- Accepting Twitter post using Node Red
- Introduction of Websocket
- Storing Twitter post in Cloudant Data Base
- Chat application using Node Red
- Node-Red for IOT
- Reading sensor value using of room using node red(iot)
- Controlling Device using rpi3 and node red
- Creating phone into an IoT device

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### Session 8

#### IBM Watson

- Introduction to IBM WATSON
- Introduction to cognitiveit
- IBM Watson Services and API
- Introduction to Watson Analytics
- Introduction to languages of AI
- Introduction to Watson Conversation Services
- Smart Chat box AI Based Example
- Adding language translation to apps with IBM Watson
- Adding language translation to apps with IBM Watson
- Build a home assistant mobile application with Watson and IoT Platform services
- simple face detection web app
- Develop a predictive analytics model for a complex data set

### Session 9

#### Introduction to Networking

- Introduction Computer Network
- Introduction Networking Devices
- Introduction Networking Topology
- Introduction of Packet Tracer
- Implementation of various networking model using Packet Tracer
- Basic Networking command And Its Implementation using CMD

### Session 10

#### IP Address & Virtualization

- Introduction of Ip Address
- IPV4 and IPV6
- Subneting
- Subnet Masking
- Default Subnet
- Public ,private IP
- Static and dynamic IP

### Session 11

#### Concept behind the Virtualization

- Vmware
- Hypervisor –VMM
- Type of hypervisor
- Virtualization in Cloud Computing

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**Session 12**

**Container & Docker**

- Introduction of Container
- Containers and VM
- Advantages of Container
- Introduction of Docker
- Docker vs VM
- Docker architecture
- The Docker daemon, The Docker client, Docker registries
- Docker Object
- Cluster and Node
- Docker Toolbox Setup
- Docker CLI Introduction
- Docker-Machine Basic command Implementation
- Chat application using Node Red
- Creating Docker Machine Cluster
- Introduction of Dockerfile and its Commands
- Creating Docker Image using Dockerfile
- Deploy Static HTML Website as Container
- Deploy python(Flask) as Container

**Session 13**

**DOCKER-SWARM & Kubernetes**

- Introduction of swarm
- Docker Swarm components
- Creating-Machine
- Creating Swarm Service
- Accessing the Service
- Scaling up and Scaling down
- Introduction of Kubernetes and its Architecture
- Kubernetes Terminology
- Kubernetes Vs Docker

**Session 14**

**Openstack & Softlayer**

- Introduction of Openstack
- How is OpenStack used in a cloud environment
- components of OpenStack
- Introduction of softlayer
- IBM SoftLayer
- Creating first virtual server in SoftLaye

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**Session 15**

**Amazon Web Services**

- Introduction of AWS
- Creating Account ,Introduction of Free Tier Services
- Services offered by Amazon
- EC2 - Configuring a server, Launching an instance
- S3- Allocating storage buckets,
- Amazon Virtual Private Cloud (VPC)
- Amazon API Gateway
- AWS SDK for Java Developer
- Launch a Web Application
- Deploy a Python Web App
- Host a Static Website
- ML Model to Generate Predictions
- Amazon Machine Learning Example

**Disclaimer:**

A session doesn't necessarily depict the day count or the day on which it is going to be covered, we may cover more than or lesser than one session in a day and even alter/amend the schedule by rearranging of session(s) by removing/adding anything from/to overall course, the course structure may differ center wise, Also this is to notify that EISystems Services is nowhere specifying that center in Varanasi will be IIT BHU campus, our center in Varanasi is different and Technex which is an annual techno entrepreneurship festival of IIT BHU Varanasi is a certification partner for this internship program. Fees once paid will not be refunded except in case of cancellation of training program or as given in terms and conditions. Please checkout given terms and conditions on our website [www.eisystems.in/sitp](http://www.eisystems.in/sitp) before proceeding for payment.

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