



# Visvesvaraya Technological University

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## CIRCULAR

**Sub:** Inviting Faculty members for Faculty Development Program for Cloud Computing.

**Ref:** Visvesvaraya Technological University MOU with IBM Academic Initiative.

With reference to our MOU cited above, the University will organize a One day hands on workshop on Cloud Computing. The training will be conducted by IBM Bluemix Certified Professionals in our Regional Centers as detailed below:

Mysore	05-Dec-15
Bangalore	06-Dec-15
Belgaum	12-Dec-15
Gulbarga	13-Dec-15

The Master Trainers, who would complete this training program will get 1 Year free access to IBM Cloud (IBM Bluemix, is a PaaS environment) on the day of workshop, this access is worth of about US \$12K. The trainers can then be in a position to train other faculties and students of their respective institutes. The master trainers can incorporate their learning, complementing the existing curriculum through the use of latest digital tools.

You are requested to nominate a minimum of one or two faculty member for program mentioned above by registering at respective centers on below link.

Pre-requisites:

1. Register for workshop, to confirm your participation, visit the web-link: [bit.ly/vtuibm](http://bit.ly/vtuibm)
2. Create an account in IBM Cloud: [ibm.biz/blueapp](http://ibm.biz/blueapp)

The training agenda is enclosed for ready reference.

Sd/-

REGISTRAR

To, The Principals of Affiliated/Autonomous/Constituent Engineering Colleges.

Copy for information to:

1. The Special Officers of VTU Regional Offices.
  2. The Secretary to VC, VTU Belagavi.
- ✓ CNC, to upload on website

REGISTRAR

# Cloud Computing Course Outline

- **Basics of Cloud Computing**

- i. **Cloud computing overview**

- Define cloud computing

- ii. **Cloud service delivery models**

- Describe the service delivery models of cloud computing

- Explain software as a service (SaaS)

- Explain platform as a service (PaaS)

- Explain infrastructure as a service (IaaS)

- iv. **Cloud deployment scenarios**

- List the four major cloud deployment types

- Describe the features of private, public, hybrid, and community clouds

- **Cloud Foundry**

- i. What is cloud foundry

- ii. Cloud foundry services

- iii. GIT Hub Introduction

## Hands On Session

- **IBM Bluemix**

- i. What is Bluemix

- ii. Bluemix Architecture

- iii. How Bluemix works

- iv. Exercises on IBM Cloud- Bluemix

- a. Using Liberty Java Boilerplate

- b. Using eclipse to work with Bluemix.

- c. Using Github to develop application on IBM Bluemix

- d. Use Bigdata & Analytics services to create and application.

If time permits we can work on Cognitive Computing based Analytics services.

## Brief on IBM Cloud:

IBM Bluemix will help to develop cloud based application on Web, Mobile, IoT, BigData & Analytics, Security & Social. Thru which you can run regular lab exercises as well students can develop their final year projects on IBM Cloud and submit the same for their academic project of 8th Semester or for mini project and also same project will be eligible for application development contest of IBM called TGMC(The Great Mind Challenge).

Faculty can use bluemix to build their research projects as well.