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A-GRADE

REFRESHER COURSE ON
"Virtualization and Cloud Computing"
(04-02-2019 to 23-02-2019)

Organized by

**UGC – HUMAN RESOURCE DEVELOPMENT CENTRE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
KUKATPALLY, HYDERABAD, T.S.**

About UGC-HRDC, JNTUH:

The UGC-Human Resource Development Centre (formerly known as UGC-Academic Staff College), Jawaharlal Nehru Technological University Hyderabad, was established in the year 2000 and sponsored by University Grants Commission, New Delhi. The UGC-Human Resource Development Centre organizes Orientation Programmes, Refresher Courses, Short Term Courses and Workshops on thrust areas for in-service teachers and also for newly appointed teaching faculty on a regular basis, to update the knowledge and skills in their respective fields.

During the current academic year 2018-19, a one-week Short Term Course on **"Virtualization and Cloud Computing"** is proposed to be organized by UGC-HRDC, JNTUH during 04-02-2019 to 23-02-2019 through ONLINE.

Major Course Contents:

- Cloud Computing: Concept, Definition, Cloud Types and Service Deployment Models.
- Concept of Virtualization.
- Cloud fundamentals.
- Private cloud environment.
- Public cloud environment.
- Auto-provisioning.
- Cloud as PaaS, SaaS.
- Cloud computing securitisation.
- Ethics and standard of cloud.
- Demonstration of Virtualization using Type-2 Hypervisor and VMs.
- Creating a VM and install Kali Linux on the VM.
- Demonstration of IaaS, PaaS and SaaS through real life examples.

Eligibility:

- The faculty members working in Constituent Colleges and Affiliated Colleges of JNTUH from the departments of **CSE, IT, ECE, EEE, Mechanical Engineering** and related disciplines.
- The faculty members have to be sponsored by the concerned Principal of the College / Head of the Institution for considering the participation in the Programme.

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Report on UGC conducted Refresher Course on "Virtualization and Cloud Computing" at JNTUH

(4th February – 23rd February 2019)

The Refresher Course on Virtualization and Cloud Computing started on 04-02-2019 with an introductory session at 11.00 A.M., the Chief Guest Sri Dr.T.Venugopal, Professor at JNTUH articulated the importance of Refresher course on Virtualization and Cloud Computing. He has explained about how importance is the cloud computing which plays an important role in the storage of large amount of data, he also tells about the cloud computing useful in the startup companies.

The Speaker Dr.T.V.Rajinikanth, has explained on virtualization techniques to be implemented in cloud platform, data transparency and data replication serves for a better storage in different server locations, cloud helps in the deployment of project in cloud environment from where the client can access the data storage on the cloud.

Cloud computing concepts in Virtualization session given by Sri Raghavendra Scientist, ADRIN, Banglaore, he has given session on Virtualization for Server and Desktop Virtualization, an introduction to hypervisor was explained and to manage different virtual machines Xen Server is used with linux o.s. for virtualization needed to install Xen Server, to connect cloud server the launch instance connect is utilized.

Dr.S.Vishwnadh Raju JNTU Jagityal, has given session on cloud standard architecture, which used different cloud simulators like cloud sim, cloud analyst, green cloud etc, the VDI virtual desktop infrastructure is used in online test education using cloud resources like AWS cloud, the real-time cloud issues like down time and availablility dos attacks, vendor-lock, location control and data loss having in real time issues having in cloud environment.

The session was conducted good with hands-on-session on IBM Cloud, Microsoft Azure platform and AWS Cloud.

Submitted by:

Mr. B.Vamshi

27/2/19

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26/2/19