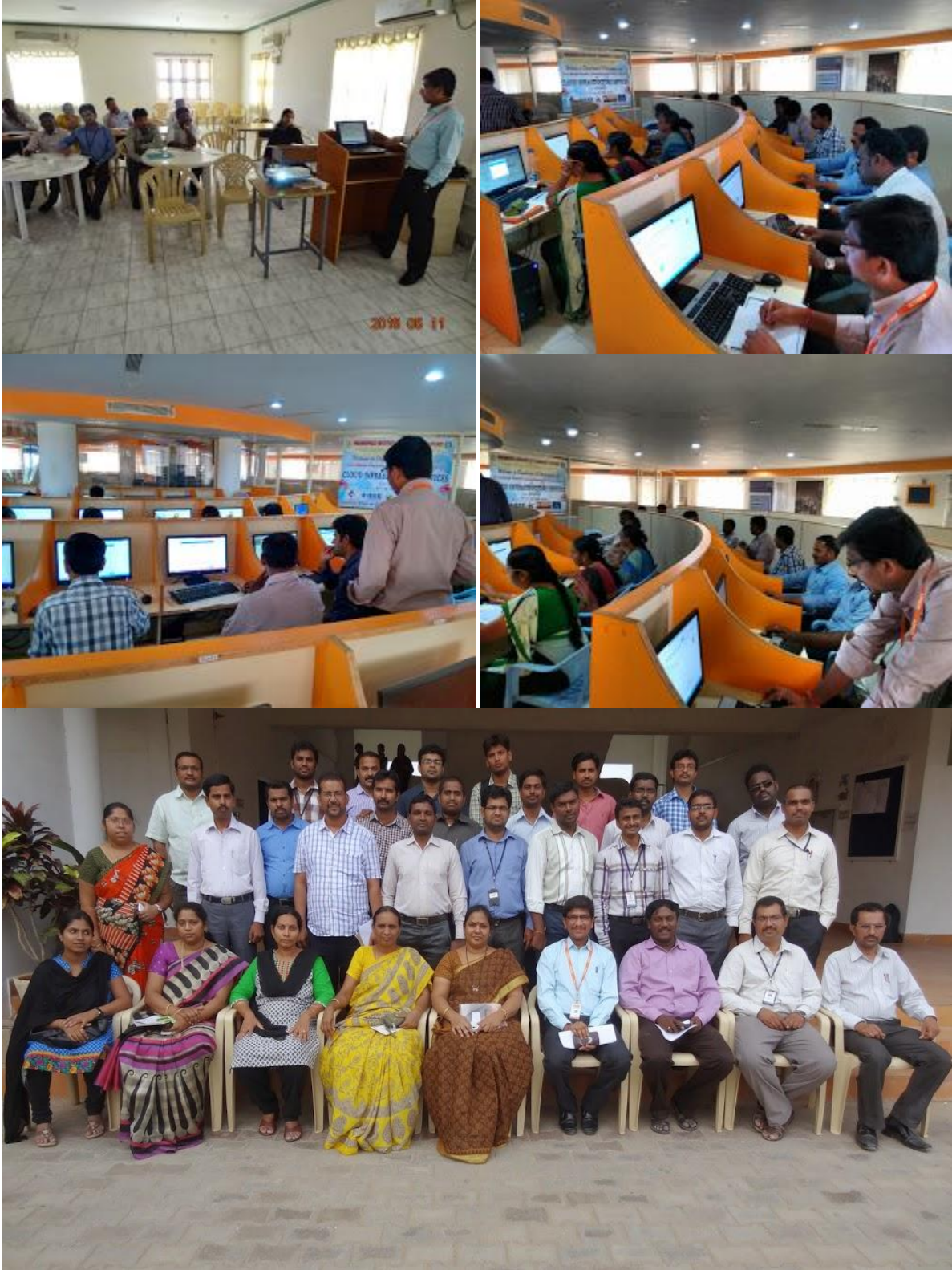# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
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Report on
One Week Faculty Development Programme on
Cloud Infrastructure Services
Organized by Dept. of CSE - MITS
11 - 16 May 2015

Submitted by: Dr. E. Madhusudhana Reddy, Professor, Dept. of Computer Science & Engineering

One Week Faculty Development Programme on **Cloud Infrastructure Services** under TEQIP-II in association with ICTACT, Tamilnadu is held from 11th to 16th May 2015, organized by CSE Department at Madanapalle Institute of Technology and Science, Madanapalle. The FDP is organized to train faculty in Cloud Infrastructure Services and get EMC certificated, so in turn train our students for cloud certification.

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The Resource Person is Mr. M. Karthik, Software Engineer from ICTACT, Tamilnadu. The following topics were cover in FDP.

Day 1: Topics covered: Journey to the Cloud: Introduction to Cloud Computing, Advantages, features

Classic Data Center: Application, DBMS, Compute and Storage, Storage Networking Technologies Part 1, Storage Networking Technologies Part 2, Object Based and Unified Storage Technologies, Business Continuity Overview and Backup, Replication Technologies.

Day 2: Topics covered: Classic Data Center: CDC Management, Virtualized Data Center – Compute:

Compute Virtualization Overview, Compute Virtualization Techniques, Virtual Machine, Resource Management, Physical to Virtual Conversion, Storage Virtualization Overview, Virtual Machine Storage, Block-level and File-level Virtualization, Virtual Provisioning and Automated Storage Tiering.

Day 3: Topics covered: Virtualized Data Center –Networking: VDC Networking Overview, Virtualized Data Center – Networking, VLAN and VSAN Technologies, Network Traffic Management, Virtualized Data Center -Desktop and Application:Desktop Virtualization.

Day 4: Topics covered: Business Continuity in VDC : Fault Tolerance Mechanism in VDC, Backup in VDC, Replication and Migration in VDC, Cloud Computing Primer: Overview of Cloud Computing, Cloud Services and Deployment Models, Cloud Infrastructure and Management: Cloud Infrastructure and Service Creation, Cloud Service Management.

Day 5: Topics covered: Cloud Security: Security Basics, Security Concerns and Threats, Security Mechanisms, Security Governance, Security Risks and Compliance.

Day 6: Cloud Migration Migration Consideration: Phases to adopt the Cloud, ON-Line EMC Mock Certification Exam.