

## ABOUT THE COLLEGE

Adhiparasakthi Engineering College was established in the year 1984 with the blessings of the Founder President His Holiness Arulthiru Bangaru Adigalar in order to meet the growing demands for engineers in the modern industries. The institution is governed by the Vice President of the ACMECT Thirumathi Lakshmi Bangaru Adigalar as chairperson. The institution is one of the prestigious educational institutions functioning under the Adhiparasakthi Charitable, Medical, Educational and Cultural Trust.

The institution is approved by the Government of Tamilnadu and the All India Council for Technical Education and is affiliated to Anna University. The college completed its third decade recently and the college has been accredited by National Board of Accreditation, AICTE and is an ISO 9001:2008 certified institution.

## ABOUT DEPARTMENT

The Department of Information Technology (IT) was established in the year 1998 with the vision of developing the department as a Centre of Excellence in R&D, in the field of Information Technology and make the students blossom into meritorious and self-disciplined engineers by hard work. The department has been accredited by NBA/AICTE and Affiliated to Anna University, Chennai.

## PROGRAMME OBJECTIVE

The STTP programme is intended to provide opportunity to the faculty and researchers to expand their knowledge in the area of Grid and Cloud Computing.

- This STTP enables to understand how Grid computing helps in solving large scale scientific problems.
- Gain knowledge on the concept of virtualization that is fundamental to cloud computing.
- How to program the cloud.
- Understand the security issues in the cloud environment.

The objective of this STTP is to give a broad exposure to Faculty members for handling the course CS6703 Grid and Cloud Computing and IT6713 & CS6712 Grid and Cloud Computing Laboratory in Engineering Colleges affiliated to Anna University, Chennai.

## TARGET PARTICIPANTS

Practising Engineers in Industries, Faculty, Research Scholars and PG Students currently working in the field of Grid and Cloud Computing with relevant background can apply.

## REGISTRATION

- ✓ Registration Fee: Rs. 2500/-
- ✓ Registration fee includes lunch and refreshment for all seven days.

The Registration Form in the prescribed format, duly signed by the Head of the Institution along with non-refundable DD drawn in favour of "THE PRINCIPAL, ADHIPARASAKTHI ENGINEERING COLLEGE" payable at Melmaruvathur should be sent.

## IMPORTANT DATES

Last date for the receipt of registration form along with DD on or before 01-06-2016.

## SELECTION NOTIFICATION

Selected participants will be notified through E-mail within a week on receipt of Registration Form and DD.

## CONTACT PERSONS

Mr. B.Sivakumar  
Mobile: 9884772324  
Mr. R.Pitchai  
Mobile: 9962795456

Email : [cloudsttp16@gmail.com](mailto:cloudsttp16@gmail.com)

Note: This STTP Covers Anna University 7th Semester IT6713 & CS6712 Grid and Cloud Computing Laboratory



## NATIONAL LEVEL SHORT TERM TRAINING PROGRAMME (STTP)

on

## VIRTUALIZATION AND CLOUD COMPUTING

JUNE 6 – 12, 2016



## CONVENER

Dr. A. BHUVANESWARI  
PROFESSOR & HEAD / IT

## COORDINATORS

Mr. B.SIVAKUMAR  
Mr. R.PITCHAI  
Mr. D.MANIKKANNAN

## Organized by

Department of Information Technology  
Adhiparasakthi Engineering College  
Melmaruvathur – 603319.

[www.adhiparasakthi.in](http://www.adhiparasakthi.in)

## TOPICS TO BE COVERED

### DAY 1: Linux Administration

- ✓ Introduction to Linux
- ✓ Install Linux graphically
- ✓ Manage files from the command lines
- ✓ Secure Linux file access
- ✓ Managing simple partitions and file systems
- ✓ Package management
- ✓ Configure local services
- ✓ Installing and managing software

### DAY 2: GRID and Cloud, VMWARE Introduction

- ✓ GRID & Cloud - Introduction
- ✓ Introduction to VMware virtualization
- ✓ Installing VMware ESXI host
- ✓ Creating virtual machines
- ✓ VMware VCENTER server

### DAY 3: VMWARE Administration Training

- ✓ Configuring and managing virtual networks
- ✓ Configuring and managing virtual storage
- ✓ Managing virtual machines
- ✓ Backup management
- ✓ Access and authentication control
- ✓ Resource management and monitoring
- ✓ VMOTION, DRS, DPM, High availability functionality.

### DAY 4: Private Cloud - Openstack

- ✓ Linux Openstack platform Architecture
- ✓ Linux Openstack Platform Installation

### DAY 5: Private Cloud – Open Stack Services

- ✓ Identity Service  
Install, configure, and use the Keystone authentication services.
- ✓ Image Service  
Install the Glance image service.  
Import system images.
- ✓ Block Storage Service

Install the Cinder block storage service.  
Manage Cinder volumes.

### DAY 6: Private Cloud - Openstack Services

- ✓ Networking Service  
Install, configure, and manage Red Hat Enterprise Linux Open Stack Platform networking service.
- ✓ Compute and controller services  
Install Nova compute and controller.  
Learn how to add nova compute nodes.  
Launch an instance from the command line.
- ✓ Additional compute node

### DAY 7: Deployment

- ✓ Linux and Unix deployment in Private Cloud  
Install windows 2012 server and centos7 operating system in Open Stack
- ✓ Comprehensive review  
Review the installation and management of Red Hat Enterprise Linux Open Stack Platform.

### Principal Trainer

Mr. B. Vijayabalan,  
Infrastructure Architect,  
Cloudncloud Technologies Pvt Ltd,  
Chennai.  
Website : [www.cloudncloud.com](http://www.cloudncloud.com)

- He has 17+ years experience in infrastructure managed services. A seasoned IT infrastructure professional with specialization in Linux and Middleware.
- Achievements (All India Rank)
  - ✓ Redhat Certified Architect – 34<sup>th</sup>
  - ✓ Open stack Specialist – 12<sup>th</sup>
  - ✓ Open stack Architect – 9<sup>th</sup>
  - ✓ Open stack Expert – 5<sup>th</sup>
  - ✓ Big Data Architect – 7<sup>th</sup>

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### REGISTRATION FORM

Name : \_\_\_\_\_  
Gender : \_\_\_\_\_  
Qualification : \_\_\_\_\_  
Designation : \_\_\_\_\_  
Department : \_\_\_\_\_  
Name of the Institution : \_\_\_\_\_  
Experience : \_\_\_\_\_  
Address for communication : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

E-mail : \_\_\_\_\_  
Mobile : \_\_\_\_\_  
Whether accommodation is required : YES / NO  
Payment Details  
Amount : Rs. 2500/- DD No. : \_\_\_\_\_  
Date : \_\_\_\_\_ Bank: \_\_\_\_\_  
Place : \_\_\_\_\_  
Date : \_\_\_\_\_

Signature of Participant

### DECLARATION

Dr./Mr./Ms. \_\_\_\_\_  
is an employee / research scholar / PG student of our institution / organization and is permitted to attend the National Level Short Term Training Programme (STTP) on Virtualization and Cloud Computing organized by Department of Information Technology, Adhiparasakthi Engineering College from June 6 – 12, 2016.

Signature of the Head of the Institution  
with office seal