

## **WORKSHOP PROPOSAL**

**“CLOUD COMPUTING”**

**Submitted by: -**

**E2MATRIX**

**(An ISO 9001:2008 Certified Company)**

The Value of Trust



Return on Influence

***“Join hands for long relations because trust  
matter”***

<b>1</b>	<b>1 DAY WORKSHOP</b>	<b>Page No: 4</b>
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Cloud user can deploy the large scale application over the real cloud without taking any responsibility for resource management and resource provisioning. Cloudsim toolkit provides the modeling and simulation of cloud computing system and application provisioning policy implementation. This Simulation tool provides the repeatable and controlled environment to setup a new virtual cloud computing environment with different cloud component properties. Cloudsim Toolkit provides the flexibility to the user to implement his own resource provisioning policy.

Cloudsim enables seamless modeling, simulation, and experimenting on Cloud computing infrastructures. It is a self-contained platform that can be used to model datacenters, service brokers, and scheduling and allocation policies of large scale Cloud platforms.



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The main purpose of this “Hands-on Training on Cloudsim” is to create awareness and enrich knowledge for research scholars, faculty and students in the area of Cloud computing using Cloudsim

## **1-DAY WORKSHOP**

1. What is cloud computing
2. Real time scenario
3. Architecture
4. SaaS, PaaS, IaaS
5. Application of Cloud Computing
6. Basics of Cloudsim with Installation

**TIME DURATION: 4 hours/day**

**COST: 200/- PER STUDENT**

## 2 -DAYS WORKSHOP

### Module 1

1. What is cloud computing
2. Real time scenario
3. Architecture
4. SaaS, PaaS, IaaS
5. Application of Cloud Computing
6. Basics of Cloudsim with Installation

### Module 2

1. Creation of
  - a) Datacenters,
  - b) Brokers,
  - c) Virtual Machines,
  - d) Jobs
2. Simulation of the cloud scenario
3. Calculation of make span time, cost, waiting time for the running of each job

**TIME DURATION: 4 hours/day**

**COST: 300/- PER STUDENT**

## 3-DAYS WORKSHOP

### Module 1

1. What is cloud computing
2. Real time scenario
3. Architecture
4. SaaS, PaaS, IaaS
5. Application of Cloud Computing
6. Basics of Cloudsim with Installation

### Module 2

1. Creation of
  - a) Datacenters,
  - b) Brokers,
  - c) Virtual Machines,
  - d) Jobs
2. Simulation of the cloud scenario
3. Calculation of make span time, cost, waiting time for the running of each job

### Module 3

1. Job scheduling in cloud computing
2. FCFS Scheduling algorithm execution in cloud
3. SJF Scheduling algorithm in cloud

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**Module 4**

1. Resource aware scheduling
2. Load Balancing

**Module 5**

1. Security in cloud computing

**TIME DURATION: 4 hours/day**

**COST: 500/- PER STUDENT**