

### Registration Form

#### **Workshop on NoSQL Databases**

Name: \_\_\_\_\_

College: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Telephone: \_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

Accommodation Required: Yes / No

#### **Payment Details**

DD No: \_\_\_\_\_

Rs: \_\_\_\_\_

Bank: \_\_\_\_\_

Branch: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of the Participant

Signature of the HoD/Principal

### Registration Details

Fees: Rs.500/- per participant

(DD Should be drawn in favour of  
**"The Director, NIT, Tiruchirappalli"**  
Payable at Tiruchirappalli)

Bring the filled in form and the DD on the day of event.

- TA will not be provided
- Lunch and tea will be provided.

### Accommodation

Limited Accommodation will be provided on payment basis

### Important Dates:

**Last Date for Registration: March 28, 2018**

### How to Apply:

Applicants are requested to send the scanned copy of the filled in registration form and DD by email to [eswari@nitt.edu](mailto:eswari@nitt.edu).

### Coordinators:

Dr.S.R.Balasundaram  
Dr.R.Eswari  
Department of Computer Applications  
National Institute of Technology  
Tiruchirappalli - 620 015

### Contact details:

Phone: +91 9489585316

**National Institute of Technology  
Tiruchirappalli- 620 015**

# Workshop on NoSQL Databases

April 6, 2018



**Organized by  
Department of Computer Applications  
National Institute of Technology  
Tiruchirappalli- 620 015  
[www.nitt.edu](http://www.nitt.edu)**

### **About the Institute**



The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli is one of the most pioneering education institutions in the country serving to the society of five decades. It has been always striving so hard with the great enthusiasm and charm to keep itself a breast with the latest developments in science and technology that occur in and around the world. At present, ten under graduate programs are offered besides Ph.D.in all departments.

### **About the Department**



The Department of Computer Applications is one of the pioneering departments of the institution that offers Information Technology courses such as MCA and one among the top five offering MCA courses in the country. It is committed to impart quality education in the sub-fields of IT, a field growing in leaps and bounds. The curriculum is so made that the course provides a good theoretical foundation through high-quality teaching complemented by extensive practical training. It is dedicated to the mission of inculcating value-based, socially committed professionalism to the cause of overall development of students and society.

### **About NoSQL**

Massive volumes of new, rapidly changing data types — structured, semi-structured, unstructured and polymorphic data are being used in the modern day applications. Many applications act as services that must be always-on, accessible from many different devices and scaled to millions of users. Move towards scale-out architectures using open source software, commodity servers and cloud computing has exponentially increased. To cater to the needs of such predominant changes, the scalability and agility of databases are high in demand. In this direction NoSQL encompasses a wide variety of different database technologies that were developed in response to the demands presented in building modern applications.

### **Mongo DB**

MongoDB is a leading NoSQL database solution. It uses a distributed architecture, can accommodate thousands of commodity servers in a cluster, uses master-slave replication with customizable settings. It stores data in the form of JSON "documents" in "collections" with no pre-defined schema (documents are loosely similar to records in relational databases, while collections are similar to tables). As a result of these features, MongoDB is highly scalable, highly available with no single point of failure, and can store extremely large volumes of data reliably and cost-economically.

### **Topics to be Covered**

- **Introduction to NoSQL**
- **What is Mongo DB**
- **History and Features**
- **Shell**
- **Data Modelling**
- **Collection**
- **CRUD Operations**
- **Differences with Other NoSQL DBs**
- **Connectivity**
- **Applications**

### **Target Audience:**

- ✓ Executives, IT engineers and researchers from Industry and government organizations including R&D laboratories.
- ✓ Students (MCA/M.Sc./B.Tech./M.Tech.), Research Scholars and Faculty from reputed academic institutions and technical institutions.

### **Resource Persons:**

Experts from Industries will deliver the topics and handle hands on sessions.