Registration Form

Workshop on Spark

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.2000/- per participant
.
(DD Should be drawn in favour of
"The Director, NIT, Tiruchirappalli"
Payable at Tiruchirappalli)

- 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: 07/10/17~~

SPOT REGISTRATION ACCEPTED.

Those who prefer to register on the spot on 12th October 2017, kindly inform your interest through mail or mobile to the below mentioned contact mail-id or mobile no.

How to Apply:

Applicants are requested to **send the scanned copy of the filled in registration form and DD by email and bring the original DD on 12th October 2017.**

Mail Id: selvanc@nitt.edu

Contact details:

Phone: +91 8883300999

National Institute of Technology Tiruchirappalli- 620 015

Workshop

on

Spark
Oct 12, 132017

**Organized by
Department of Computer Applications
National Institute of Technology
Tiruchirappalli- 620 015
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 Spark

Apache Spark is a fast and general-purpose cluster computing system. It provides high-level APIs in Java, Scala, Python and R, and an optimized engine that supports general execution graphs. It also supports a rich set of higher-level tools including Spark SQL for SQL and structured data processing, MLlib for machine learning, GraphX for graph processing, and Spark Streaming.

It is based on HadoopMapReduce and it extends the MapReduce model to efficiently use it for more types of computations, which includes interactive queries and stream processing. The main feature of Spark is its in-memory cluster computing that increases the processing speed of an application.

Spark is designed to cover a wide range of workloads such as batch applications, iterative algorithms, interactive queries and streaming. Apart from supporting all these workload in a respective system, it reduces the management burden of maintaining separate tools.

Topics to be Covered

- ➢ *Spark Installation*
- ➢ *Spark Programming – Scala*
- ➢ *Spark Streaming*
- ➢ *Programming with RDDs*
- ➢ *Structured data: SQL, Dataframes, and Datasets*
- ➢ *Spark SQL*
- ➢ *Custom User Defined Functions(UDF)*
- ➢ *MLlib (Classification, Validation, Regression, Clustering, Feature Extraction, Transformation, Collaborative Filtering)*
- ➢ *GraphX*
- ➢ *PySpark*

Target Audience:

- ✓ Executives, IT engineers and researchers from Industry and government organizations including R&D laboratories.

- ✓ Students (B.Tech./M.Sc./M.Tech.), Research Scholars and Faculty from reputed academic institutions and technical institutions.