Distance Learning Course on "Big Data and Hadoop"

Organized By: Bangladesh Research and Education Network (BdREN) under Asi@Connect 2nd Call Project (WP5): Facilitating Distance Learning using Digital Conference Facility (fDLuDCf)

Online Registration through ***https://dle.asiaconnect.bdren.net.bd/*** by **20 March 2020**

Course Duration: Total 8 Class, 2 Hour/Class, 1 Class/Week; Starting from 21 March 2020

100% FREE! **Registration**

Financed by
Asi@Connect/TEIN*CC/EU

Instructor

PALASH GUPTA
Consultant
OSS/CEM/Big Data

Participants Eligibility

Country: Bangladesh, Bhutan, Nepal, Philippine, Sri Lanka, Thailand
Prerequisit:

- experience on Systems/Network Administration in Linux
- understanding of Programming (C/Python and Shell Scripting)
- Operating Systems (Windows and Linux)

Certificate/Award

- ✓ Digital Certificate will be delivered to successful Candidates.
- ✓ Top 10 Trainees of Final Result will receive award 100 Euro each.
- ✓ Final Result will be sum of Class Attendance 50% + Exam Score 50%

Course Description	The course focuses on the basics of Big Data, Hadoop & Spark explaining both distributed storage and computing. It is a blend of both theory and hands-on demonstration & exercises which will give the trainee a working level experience about the operational process and associated benefits of Big Data.
Learning Outcomes	Upon completion of this course, students will be able to do the followings: ➢ Understand the basic concepts and applications of Big Data & Hadoop. ➢ Understand the Hadoop HDFS, Map Reduce and Spark. ➢ Hands on Experience on setup, configure and administration of Hadoop & Spark. ➢ Practical Experiment on deploying real-life Big Data application.
Evaluation Criteria	Assignments 50 Marks + Final Examination 50 Marks • Thirty (30) Multiple Choice Questions (* 1 Mark) from the topics which cover in the week of 1-5 and Two programming assignment which cover in the week of 6-8 (10 Marks for each assignment). • Final Examination (25 Multiple Choice Questions* 2 Marks)

Course Schedule

Week	Class Topic	Date	Times [GMT+6]	Duration
1	Introduction to Big Data & Hadoop	21 March 2020	16:00~18:00	2 Hrs
2	Understanding Hadoop HDFS & Map Reduce	28 March 2020	16:00~18:00	2 Hrs
3	Basic Hadoop Configuration and Administration	04 April 2020	16:00~18:00	2 Hrs
4	Understanding Spark Essential, Architecture	11 April 2020	16:00~18:00	2 Hrs
5	Spark Configuration, Administration & Setup	18 April 2020	16:00~18:00	2 Hrs
6	Fundamental of Python and Shell Scripting	25 April 2020	11:00~13:00	2 Hrs
7	Programming with HDFS & Spark	02 May 2020	11:00~13:00	2 Hrs
8	Practical Experiment with a real-life problem	09 May 2020	11:00~13:00	2 Hrs

Undergraduate/Post-Graduate Students of relevant study especially CSE/IT/ECE/EEE/ETE are Highly Encouraged to Apply

Contact: fdludcf@bdren.net.bd. +8801558910866