

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

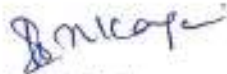
Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560078

Department of Bachelor of Computer Application

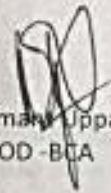
Date: 30/07/2019

Admission Notice For Add on Course Big Data Computing

This is to notify that department of Computer Application is offering add on course on Big DATA for VI Sem BCA students and the course is going to begin from 08/08/2019. Interested students should give their names in the office before 1/07/2019.



Faculty In charge
Kohila Kanagalakshmi



Prof. Hemant Uppala
HOD - BCA

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560078

Department of Computer Application - BCA

BIG DATA - Add on Course


Date: 30/07/2019

Time Table

The department of Bachelor of Computer application is conducting add on course on BIG DATA and the course is going to start from 08/08/2019 – 20/09/2019. The course will be engaged from Monday to Friday at 4 pm to 5pm.



Faculty In charge
Kohila Kanagalakshmi



Prof. Hemant Uppala
HOD -BCA

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560078

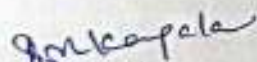
Department of Computer Application - BCA


Add On Course - CLOUD COMPUTING

Date: 1/07/2019

List of the students enrolled for the course:

Sl No	Registration Number	Name
1.	18CQSB7002	ABHIRAM K S
2.	18CQSB7005	AMOGH K
3.	18CQSB7006	AMRUTHA G
4.	18CQSB7010	ANKITA SIRURMATH
5.	18CQSB7025	DAMINI D H
6.	18CQSB7036	GREESHMA M
7.	18CQSB7037	GURURAJ S
8.	18CQSB7050	LAKSHYA MURALIDHARA
9.	18CQSB7052	M S KRUTHIKA
10.	18CQSB7054	MAHALAKSHMI
11.	18CQSB7058	MOHAMMAD ASAD P R
12.	18CQSB7075	PRITAM BHADURY
13.	18CQSB7085	SAMUEL RAHUL J
14.	18CQSB7092	SRUJAN S
15.	18CQSB7088	SHIREESHA K B
16.	18CQSB7105	VIBHA B G
17.	18CQSB7077	RAMYA S
18.	18CQSB7106	VIGNESH R
19.	18CQSB7083	SAI BALAJI R
20.	18CQSB7061	MOHIT SINGH


Faculty In charge
Kohila Kanagalakshmi


Prof. Hemant Uppala
HOD -BCA

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE

Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore-560078

Department of Computer Application

Syllabus for Add On Course On

BIG DATA COMPUTING

Total Teaching Hours: 30

COURSE OBJECTIVES :

- Understand the Big Data Platform and its Use cases
- Provide an overview of Apache Hadoop
- Provide HDFS Concepts and Interfacing with HDFS
- Understand Map Reduce Jobs
- Provide hands on Hadoop Eco System
- Apply analytics on Structured, Unstructured Data.
- Exposure to Data Analytics with R.

COURSE OUTCOMES: The students will be able to:

- Identify Big Data and its Business Implications.
- List the components of Hadoop and Hadoop Eco-System
- Access and Process Data on Distributed File System
- Manage Job Execution in Hadoop Environment
- Develop Big Data Solutions using Hadoop Eco System
- Analyze Infosphere BigInsights Big Data Recommendations.
- Apply Machine Learning Techniques using R. Pre-requisites : Should have knowledge of one Programming Language (Java preferably), Practice of SQL (queries and sub queries), exposure to Linux Environment.

UNIT I : INTRODUCTION TO BIG DATA AND HADOOP Types of Digital Data, Introduction to Big Data, Big Data Analytics, History of Hadoop, Apache Hadoop, Analysing Data with Unix tools, Analysing Data with Hadoop, Hadoop Streaming, Hadoop Echo System, IBM Big Data Strategy, Introduction to Infosphere BigInsights and Big Sheets.

UNIT II : HDFS(Hadoop Distributed File System) The Design of HDFS, HDFS Concepts, Command Line Interface, Hadoop file system interfaces, Data flow, Data Ingest with Flume and Scoop and Hadoop archives, Hadoop I/O: Compression, Serialization, Avro and File-Based Data structures.

UNIT III : Map Reduce Anatomy of a Map Reduce Job Run, Failures, Job Scheduling, Shuffle and Sort, Task Execution, Map Reduce Types and Formats, Map Reduce Features.

Unit IV : Hadoop Eco System Pig : Introduction to PIG, Execution Modes of Pig, Comparison of Pig with Databases, Grunt, Pig Latin, User Defined Functions, Data Processing operators. Hive : Hive Shell, Hive Services, Hive Metastore, Comparison with Traditional Databases, HiveQL, Tables, Querying Data and User Defined Functions. Hbase : HBasics, Concepts, Clients, Example, Hbase Versus RDBMS. Big SQL : Introduction

Text Books

- Tom White "Hadoop: The Definitive Guide" Third Edition, O'Reilly Media, 2012.
- Seema Acharya, Subhasini Chellappan, "Big Data Analytics" Wiley 2015.

References

- Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, 2007.
- Jay Liebowitz, "Big Data and Business Analytics" Auerbach Publications, CRC press (2013)
- Tom Plunkett, Mark Hornick, "Using R to Unlock the Value of Big Data: Big Data Analytics with Oracle R Enterprise and Oracle R Connector for Hadoop", McGraw-Hill/Osborne Media (2013), Oracle press.
- Anand Rajaraman and Jeffrey David Ullman, "Mining of Massive Datasets", Cambridge University Press, 2012.
- Bill Franks, "Taming the Big Data Tidal Wave: Finding Opportunities in Huge Data Streams with Advanced Analytics", John Wiley & sons, 2012.
- Glen J. Myat, "Making Sense of Data", John Wiley & Sons, 2007
- Pete Warden, "Big Data Glossary", O'Reilly, 2011.
- Michael Mineli, Michele Chambers, Ambiga Dhiraj, "Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses", Wiley Publications, 2013.
- Arvind Sathi, "Big Data Analytics: Disruptive Technologies for Changing the Game", MC Press, 2012
- Paul Zikopoulos, Dirk DeRoos, Krishnan Parasuraman, Thomas Deutsch, James Giles, David Corigan, "Harness the Power of Big Data The IBM Big Data Platform", Tata McGraw Hill Publications, 2012.


DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BANGALORE-560078
Department of Computer Applications - BCA

ADD ON COURSE
CERTIFICATE OF COMPLETION

This is presented to

18CQSB7002 - ABHIRAM K S

for successfully completing 30 hours of Big Data Computing
course during Aug-Sept 2019


Prof. Hemant Uppala,
HOD -BCA , DSCASC


DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BANGALORE-560078
Department of Computer Applications - BCA
ADD ON COURSE

CERTIFICATE OF COMPLETION

This is presented to

18CQSB7010- ANKITA SIRURMATH

for successfully completing 30 hours of Big Data Computing
course during Aug-Sept 2019


Prof. Hemant Uppala,
HOD -BCA , DSCASC

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BANGALORE-560078
Department of Computer Applications - BCA

ADD ON COURSE
CERTIFICATE OF COMPLETION

This is presented to

18CQSB7036 - GREESHMA M

for successfully completing 30 hours of Big Data Computing
course during Aug-Sept 2019




Prof. Hemant Uppala,
HOD - BCA, DSCASC

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BANGALORE-560078
Department of Computer Applications - BCA

ADD ON COURSE
CERTIFICATE OF COMPLETION

This is presented to
18CQSB7058 - MOHAMMAD ASAD P R

for successfully completing 30 hours of Big Data Computing
course during Aug-Sept 2019


Prof. Hemant Uppala,
HOD -BCA, DSCASC

DAYANANDA SAGAR COLLEGE OF ARTS, SCIENCE AND COMMERCE
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BANGALORE-560078
Department of Computer Applications - BCA

ADD ON COURSE
CERTIFICATE OF COMPLETION

This is presented to
18CQSB7077 - RAMYA S

for successfully completing 30 hours of Big Data Computing
course during Aug-Sept 2019


Prof. Hemant Uppala,
HOD -BCA , DSCASC