R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's **RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce**)

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharaṣhtra, INDIA.

Website: www.rjcollege.edu.in   Email: rjcollege@rjcollege.edu.in   Tel No: +91 22 25151763   Fax No: +91 22 25150957

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI ‖ NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

Date:13 November 2019

Notice

Five days value added course on-"Big Data and Hadoop"

Department of Computer Science Hindi Vidya Prachar Samiti's, Ramniranjan Jhunjhunwala college of Arts, Science and Commerce(Autonomous) is Organizing Value Added Course on 'Big data and Hadoop' for TYCS students on following dates:

Dates: 16th November 2019 onwards

Time: 8.30 am to 1 pm

Resource Person: Mr. Rahul Tyagi

Venue: BSC Lab 5th floor

Thank you.
With regard

Prof Anita Gaikwad
In-charge, Dept Of Computer Sci

RAMNIRAN Dr. Usha Mukundan LEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Ghatkopar (W), Mumb Principal aharashtra, INDIA

2019: Star College Status by DBT

2008: Best College by University of Mumbai   **2010:** IMC RBNQ Award 'Performance Excellence' for the year 2009
2011: 'Best Teacher Award' by Government of Maharashtra **2013:** DST-FIST   **2014:** DBT STAR College
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BROCHURE

Hindi Vidya Prachar Samiti's

RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B
NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia

CERTIFICATE COURSE IN

BIG DATA AND HADOOP

🖵 www.rjcollege.edu.in

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☎ +91 22 25151763

📍 Opposite Railway Station, Ghatkopar (W),
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CERTIFICATE COURSE IN BIG DATA AND HADOOP

ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai. The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

Course Code: RJCSBDH

Duration: 30 hours

Credits : 02

COURSE OUTCOME

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
- Analyse Infosphere Big Insights Big Data Recommendations

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CERTIFICATE COURSE IN BIG DATA AND HADOOP

COURSE OBJECTIVE

- 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 CONTENT

Unit I
- Understand different technology trends, Big Data market and different job roles in Big Data.
- Understand what Hadoop is for, and how it works.
- Master the concepts of Hadoop framework.
- Understand complex architectures of Hadoop and its component

Unit II
- Hadoop installation on your machine
- Setup and installation of Hive, pig, sqoop, hbase
- Hbase architecture and data saveing paradigm
- Understand how MapReduce, Hive and Pig can be used to analyze big data sets
- Demos: Running HDFS commands, Hive queries, Pig queries MapReduce program execution with Bank Dataset
- Sample data sets and scripts (HDFS commands, Hive sample queries, Pig sample queries, Data Pipeline sample queries)

Unit III
- Start writing your own codes in Hive and Pig to process huge volumes of data
- Design your own data pipeline using Pig and Hive
- Understand modern data architecture: Data Lake

Unit Iv
- Apache spark and its benefits over Hadoop
- Apache spark and different language of approach for data analyzing Apache Sqoop share data from severe data to Hdfs hadoop
- Apache kafka introduction and project use case
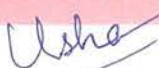- Hands on practices of code in lab

MEDIUM OF INSTRUCTION English

EVALUATION

Continuous evaluation theory and practical's (Virtual)

40% PASSING

WHO SHOULD DO IT? For SY/TY BSC Computer Science students

PRI...
...NJAN JH'...
...SCIENCE &
Ghatkopar (W), Mumbai

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VALUE ADDED COURSE

Value added course on-"Big Data and Hadoop"

Department of Computer Science

Date: November 16, 2019 Onwards   **Time: 9:00 am – 12:00 pm**

Students Benefited: TYCS Students

Number of Teachers Involved: 01 - Tejaswee Pol

Resource Person: Mr. Rahul Tyagi

Included Courses: Big Data and Hadoop

Number of students enrolled: 70

Number of Students completed this course: 70

Report

Department of Computer Science has organized a value added course on 'Big data and Hadoop' for TYCS students under DBT star activity by Mr Rahul Tyagi for TYBSc students from 16th Nov 2019 onwards. Hadoop is an open-source software framework for storing data and running applications on clusters of commodity hardware. It provides massive storage for any kind of data, enormous processing power and the ability to handle virtually limitless concurrent tasks or jobs.

This course has the following objectives:

1. Understand what Hadoop is for, and how it works
2. Master the concepts of Hadoop framework
3. Understand complex architectures of Hadoop and its component
4. Hadoop installation on your machine
5. Setup and installation of Hive, pig, sqoop, hbase
6. Hbase architecture and data saving paradigm
7. Understand how MapReduce, Hive and Pig can be used to analyze big data sets
8. Demos: Running HDFS commands, Hive queries, Pig queries
9. MapReduce program execution with Bank Dataset
10. Sample data sets and scripts (HDFS commands, Hive sample queries, Pig sample queries, Data Pipeline sample queries)
11. Start writing your own codes in Hive and Pig to process huge volumes of data
12. Design your own data pipeline using Pig and Hive
13. Understand modern data architecture: Data Lake
14. Apache spark and its benefits over Hadoop
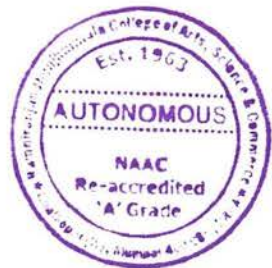15. Apache spark and different language of approach for data analyzing

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14. Apache spark and its benefits over Hadoop
15. Apache spark and different language of approch for data analyzing
16. Apache Sqoop share data from sevre data to Hdfs hadoop
17. Apache kafka introduction and project use case
18. Hands on practices of code in lab

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Photos of Students during the Five Days Value Added Course on Big Data Hadoop

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List of Participants

SR NO	NAME	ROLL
1	NAVYA KEERTHI PRADEEP SUDHA	1
2	CHAUBE ANUBHAV RAKESH SUNITA	2
3	CHAUDHARI ASHVINI RAMADAS SULOCHANA	3
4	CHAURASIYA AMIT KUMAR PRAMOD SUSHILA	4
5	CHAVAN SIDDHESH VILAS SHWETA	5
6	DHOKE ANIKET VIJAY SAYALI	6
7	DHUMAL ANIKET SAKHARAM RUPALI	7
8	DUBE PRASHANT AWADHESH NARAYAN MITHILESH	8
9	DUBEY ANKIT PRADEEPKUMAR INDU	9
10	DUBEY AKASH NARENDRA SHARADADEVI	10
11	GAIKWAD VRUTIKA HARI KUSUM	11
12	GAIKWAD SAYALI SATISH SUSHMITA	12
13	GAUD VINAYAK PRAMOD SANGEETA	13
14	GAUTAM LAXMI SANTOSH KUMAR USHA DEVI	14
15	GUPTA SWATI NANDKISHOR PREMA	16
16	GUPTA AKSHAY SUBHASH RAMA	17
17	JADHAV PURVA RANJIT ANITA	18
18	JAISWAR ASHISH RAMESH USHADEVI	19
19	KADAM RUTIKA VASANT SUJATA	20
20	KESARKAR YASHWANT SAMBHAJI SUSHMA	21
21	KHAN MUSKAAN IRFAN AHMED SAJIDA	22
22	KHAN ABU SALAM ABDUL KALAM MADINA	23
23	KHOT SAGAR RAMCHANDRA NANDA	24
24	KUNKULOL BHAGYASHREE ASHOK KAUSHALYA	25
25	LAD PRANJALI SAMBHAJI SUCHITA	26
26	LAD AJAY ANANT ANITA	27
27	MOMIN SAHIL MUBARAK NASIM	28
28	MORE YOGESH EKNATH YOGITA	29
29	MORE ANIKET RAMKRISHNA ANNAPURNA	30
30	NAYAK AJIT SHISHIR RANJITA	31
31	PANDA SAROJ KAILASH MAMTA	32
32	PANDEY DEVENDRA RAMNARAYAN POONAM	33
33	PATIL SUDHIR MAHADEV PUSHPA	34
34	PATIL PRIYANKA VILASSING CHARUSHEELA	35

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35	POLEKAR SIDDHESH CHANDRAHAS AMITA	36
36	POWAR PRAMOD BALKRUSHNA PADMA	37
37	RAI KRISHNAKUMAR RAGHAV NIRMALA	38
38	RAI ROSHAN KAUSHAL INDRALESH	39
39	SALVI YASH SANJAY SUSHMA	40
40	SHAIKH IBRAHIM SHAHABUDDIN RAHAT	41
41	SHAIKH ABDULLAH SHAMIM AHMED ZAKIRA	42
42	SHAIKH MUSKAAN MEHMOOD KAIKASHA	43
43	SHUKLA SHIVAM RATNESH ANJU	44
44	SINGH ABHINEET GAUTAM SUMAN	45
45	TIWARI SHUBHAM MATAPRASAD REENA	47
46	VISHWAKARMA SACHIN RAMESH RITA	48
47	WANDEKAR SHUBHAM ASHOK SUNITA	49
48	YADAV RIA RAJESH USHA	50
49	YADAV AARTI SHATRUGHAN PRAMILA	51
50	YADAV SAPNA RAMAVTAR HIRAVATI DEVI	52
51	YADAV SONAL JAYPRAKASH SARITA	53
52	TAMATTA RITESH RAMESHSINGH PARVATI	54
53	NIGADE SURAJ MAHADEO SANGEETA	55
54	SINGH RITESH SURYA PRAKASH KUSUMLATA	56
55	UPADHYAY SAURABH JILAJETT SHASHI	57
56	MISHRA ASHUTOSH SUDHAKAR PRATIMA	58
57	JAISWAR SACHIN SURYABHAN CHANDRAKALA	59
58	MOURYA SURAJ KUMAR KARTARAM GEETADEVI	60
59	GUPTA RAJKUMAR PREMCHAND SHRIMATI	61
60	SINGH VISHAL ANIL KIRAN	62
61	SHAIKH ABDUL HANNAN NUZHAT	63
62	MANDAL GAURAV KUMAR GANESH USHADEVI	64
63	DUBEY ABHISHEK ANIL KUSUM	65
64	YADAV AKHILESH CHANDRABHAN DURGAVATI	66
65	VISHWAKARMA ANKIT GAYADIN SHIVDEVI	67
66	CHOURASIYA NILESH LALBACHAN GEETADEVI	68
67	SHETTY PRAJWAL VIJAY SUCHETA	69
68	PRASAD PANKAJ SANJAY SUNITA	70
69	DODVE DIKSHA ASHOK KIRAN	71
70	KHAN RAIYAN MOHD SHAMIM JANNAT	72

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Certificate

Hindi Vidya Prachar Samiti's
RAMNIRANJAN JHUNJHUNWALA COLLEGE, GHATKOPAR(W)

Department of Computer Science
CERTIFICATE OF PARTICIPATION

Date: 14th December 2019

Ms. / Mr. Aniket Vijay Dhoke Of Third Year of Computer Science participated in Six days Value added Course on "Big Data and Hadoop" organized by Department of Computer Science.

Dr. Usha Mukundan
Principal

Prof Anita Gaikwad
In-charge, Dept Of Computer Sci