

BIG DATA ANALYTICS [As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2017 - 2018) SEMESTER – VIII			
Subject Code	17CS82	IA Marks	40
Number of Lecture Hours/Week	4	Exam Marks	60
Total Number of Lecture Hours	50	Exam Hours	03
CREDITS – 04			
Module – 1			Teaching Hours
Hadoop Distributed File System Basics, Running Example Programs and Benchmarks, Hadoop MapReduce Framework, MapReduce Programming			10 Hours
Module – 2			
Essential Hadoop Tools, Hadoop YARN Applications, Managing Hadoop with Apache Ambari, Basic Hadoop Administration Procedures			10 Hours
Module – 3			
Business Intelligence Concepts and Application, Data Warehousing, Data Mining, Data Visualization			10 Hours
Module – 4			
Decision Trees, Regression, Artificial Neural Networks, Cluster Analysis, Association Rule Mining			10 Hours
Module – 5			
Text Mining, Naïve-Bayes Analysis, Support Vector Machines, Web Mining, Social Network Analysis			10 Hours
Course outcomes: The students should be able to:			
<ul style="list-style-type: none"> • Explain the concepts of HDFS and MapReduce framework • Investigate Hadoop related tools for Big Data Analytics and perform basic Hadoop Administration • Recognize the role of Business Intelligence, Data warehousing and Visualization in decision making • Infer the importance of core data mining techniques for data analytics • Compare and contrast different Text Mining Techniques 			
Question paper pattern: The question paper will have ten questions. There will be 2 questions from each module. Each question will have questions covering all the topics under a module. The students will have to answer 5 full questions, selecting one full question from each module.			
Text Books: <ol style="list-style-type: none"> 1. Douglas Eadline, "Hadoop 2 Quick-Start Guide: Learn the Essentials of Big Data Computing in the Apache Hadoop 2 Ecosystem", 1st Edition, Pearson Education, 2016. ISBN-13: 978-9332570351 2. Anil Maheshwari, "Data Analytics", 1st Edition, McGraw Hill Education, 2017. ISBN-13: 978-9352604180 			
Reference Books: <ol style="list-style-type: none"> 1) Tom White, "Hadoop: The Definitive Guide", 4th Edition, O'Reilly Media, 2015. ISBN-13: 978-9352130672 			

- 2) Boris Lublinsky, Kevin T.Smith, Alexey Yakubovich,"**Professional Hadoop Solutions**", 1stEdition, Wrox Press, 2014ISBN-13: 978-8126551071
- 3) Eric Sammer,"**Hadoop Operations: A Guide for Developers and Administrators**",1stEdition, O'Reilly Media, 2012.ISBN-13: 978-9350239261



Future Vision

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CSE 8th Semester - <https://hemanthrajhemu.github.io/CSE8/>

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8th Semester CSE - TEXTBOOK - NOTES - QP - SCANNER & MORE

17CS81 IOT - <https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS81/>

17CS82 BDA - <https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS82/>

17CS832 UID - <https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS832/>

17CS834 SMS - <https://hemanthrajhemu.github.io/CSE8/17SCHEME/17CS834/>

8th Semester Computer Science & Engineering (CSE)

8th Semester CSE Text Books: <https://hemanthrajhemu.github.io/CSE8/17SCHEME/Text-Book.html>

8th Semester CSE Notes: <https://hemanthrajhemu.github.io/CSE8/17SCHEME/Notes.html>

8th Semester CSE Question Paper: <https://hemanthrajhemu.github.io/CSE8/17SCHEME/Question-Paper.html>

8th Semester CSE Scanner: <https://hemanthrajhemu.github.io/CSE8/17SCHEME/Scanner.html>

8th Semester CSE Question Bank: <https://hemanthrajhemu.github.io/CSE8/17SCHEME/Question-Bank.html>

8th Semester CSE Answer Script: <https://hemanthrajhemu.github.io/CSE8/17SCHEME/Answer-Script.html>

Contribution Link:

<https://hemanthrajhemu.github.io/Contribution/>

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