



## (An Autonomous Institution) COIMBATORE – 35 DEPARTMENT OF COMPUTER SIENCE AND ENGINEERING (UG & PG)

## Subject Code & Name: 19ITE305-Big Data& Analytics

Hadoop	Data warehouse
An open-source software framework for the	a central database of structured, ordered data.
distributed storage and processing of huge	
datasets.	
It uses Distributed file system (HDFS) for data	It uses a Relational database or structured
storage.	storage system for data storage.
MapReduce programming model and ecosystem	SQL-based queries are used for data
are used for data processing.	processing.
Designed to scale horizontally.	Designed to scale vertically.
It can handle variety of data like structured,	It can mainly handle structured data.
unstructured and semi structured data.	
It offers high scalability and is capable of	The scalability offered by a data ware house is
handling petabytes of data.	limited depending on hardware resources.
The speed of processing data is very slow.	The data processing speed is faster in the data
	warehouse.

It has limited capability to handle complex data transformations.
It is highly expensive.
It provides aggregated data for analysis purposes.
It uses the "Schema-on-Write" Data schema.
It is mainly used for reporting and business intelligence.