

Branch Name:	Information and Communication Technology
Program Code:	ET208
Course Name:	Big Data Analytics Practical
Course Code:	2ET2080202P
Pre-requisite Course:	-

Course Objective:

1. Understand the Big Data Platform and its Use cases.
2. Students will understand basic and advanced methods to big data technology and tools, including Map Reduce and Hadoop and its ecosystem.
3. To improve practical foundation level training that enables immediate and effective participation in big data projects.

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	L	T	P	Total	SEE		CCE		SEE		CCE		
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1	-	-	2	2	-	-	-	-	10	25	10	25	50

List of Experiments:

1. Master the concepts of HDFS and MapReduce framework.
2. Understand Hadoop 2.x Architecture.
3. Setup Hadoop Cluster and write Complex MapReduce programs.
4. Learn data loading techniques using Sqoop and Flume.
5. Perform data analytics using Pig, Hive and YARN.
6. Implement HBase and MapReduce integration.
7. Implement Advanced Usage and Indexing.
8. Schedule jobs using Oozie.

9. Implement best practices for Hadoop development.