NIRMA UNIVERSITY

Institute of Management

Master of Business Administration (Full Time) Programme

L	T	PW	C
1.5	-	•	1.5

Course Code	MFT5GEXX01
Course Title	Big Data Architecture and Applications

Course Learning Outcomes (CLO):

At the end of the course, students will be able to:

- 1. Demonstrate an understanding of Big Data and its applications
- 2. Discover the scope of Big Data in Business
- 3. Explain Big Data Architecture and Technology

Syllabus Teaching Hours

Unit I: Big Data Fundamentals	09
 Introduction to Big Data and its Business Applications 	
Hadoop: Distributed File System	
Hadoop I/O	
 Combiners 	
 Developing for Clusters 	
 Map Reduce and it's working; 	
 Types of Map Reduce and Formats 	
Map Reduce Features	
Unit II: Big Data Technologies	06
Hadoop Streaming	
• Partitioners	
 Information Retrieval and Models 	
Query Languages	
TF IDF in Map Reduce	
Data security and Big Data	

Suggested Readings:

- 1. Erl, T., Khattak, W., & Buhler, P., Big Data Fundamentals: Concepts, Drivers & Techniques. Pearson Education.
- 2. Baesens, Bart., Analytics in a Big Data World; Wiley India, New Delhi.
- 3. Minelli, Michael, Chamber, Michele and Dhiraj, Ambiga., *Big Data Big Analytics*, Wiley India, New Delhi

w.e.f. Academic Year 2019-20 and onwards