

GUJARAT TECHNOLOGICAL UNIVERSITY
C. K. Pithawalla College of Engineering & Technology – Surat
 BE IV Year (Semester-VIII), Branch: Computer
Subject: Big Data Analytics (2180710)

ALA & OEP

ALA

Topic No	Topic Detail
1	Introduction– distributed file system–Big Data and its importance, Four Vs, Drivers for Big data
2	Big data analytics, Big data applications. Algorithms using map reduce.
3	Big Data – Apache Hadoop & Hadoop Ecosystem
4	Moving Data in and out of Hadoop, Understanding inputs and outputs of MapReduce -, Data Serialization.
5	HDFS-Overview, Installation and Shell, Java API;
6	Hive Architecture and Installation, Comparison with Traditional Database, HiveQL Querying Data, Sorting And Aggregating, Map Reduce Scripts, Joins & Sub queries
7	HBase concepts, Advanced Usage, Schema Design, Advance Indexing, PIG, Zookeeper, How to Build Applications with Zookeeper.
8	Introduction to Data Analysis with Spark, Downloading Spark and Getting Started, Programming with RDDs,
9	Spark Streaming, Machine Learning with MLlib.
10	What is it?, Where It is Used Types of NoSQL databases, Why NoSQL?, Advantages of NoSQL, Use of NoSQL in Industry, SQL vs NoSQL, NewSQL
11	Introduction to MongoDB key features, Core Server tools, MongoDB through the JavaScript's Shell, Creating and Querying through Indexes,
12	Document-Oriented principles of schema design, Constructing queries on Databases, collections and Documents, MongoDB Query Language.

OEP

Topic No	Topic Detail
1	Requirement specification of blog application in social networking is as follows. <ul style="list-style-type: none"> • Every post has a unique title, description and url. • Every post can have one or more tags. • Every post has the name of its publisher and total number of likes. • Every post has comments given by users along with their name, message, data-time and likes. • On each post, there can be zero or more comments. For this set of requirements design a MongoDB schema.
2	Design a system to perform sentiment analysis of twitter data
3	Requirement specification for a meeting dashboard application in an organization is as follows: <ul style="list-style-type: none"> • Any member in an organization can host a meeting and send an invitations to other members within an organization. • Invitees can accept or reject the meeting with proper reason. • Every meeting has the title, timestamp and place/location associated. • Every meeting has predefined agendas and documents associated. • Meeting discussion concludes with identifying tasks to accomplish. • Every task has title, priority, deadline and note associated with it. Task can be assigned to any attendee of meeting.

	For this set of requirements design a MongoDB schema.
4	Analyze and Design a system with Web graph mining.
5	Implement and Subscribe RSS News feeds to get latest news in India.
6	Create a system which can use of Web search, web crawlers and web information retrieval.

Group Detail

Group No	Enrollment No	Name	ALA Topic No	OEP Topic No
1	140090107001	Aditya Babaria	1	1
1	140090107004	Deep Dharmeshbhai Patel	1	1
1	140090107005	Devani Harshilkumar Kishorbhai	1	1
1	140090107006	Dhameliya Smit Kiritbhai	1	1
2	140090107007	Dodhiya Sameera Naushadbhai	2	2
2	140090107009	Godiwala Foram Dharmeshkumar	2	2
2	140090107010	Golwala Anjali Prakashchandra	2	2
2	140090107011	Jaiyawala Blecy Hiteshkumar	2	2
3	140090107013	Joshi Purvam Janakkumar	3	3
3	140090107014	Jummani Hunny Mohanlal	3	3
3	140090107017	Kapadia Akshita Umeshbhai	3	3
3	140090107018	Kevin Mohanbhai Patel	3	3
4	140090107019	Khant Riya Girishbhai	4	4
4	140090107020	Kharwar Gautami Sanjaykumar	4	4
4	140090107021	Khushboo Saboo	4	4
4	140090107022	Majiwala Pratikkumar Kanchanlal	4	4
5	140090107024	Mehta Purvi Himanshu	5	5
5	140090107026	Panseriya Vikalp Sanjaybhai	5	5
5	140090107027	Parikh Dhvani Devang	5	5
5	140090107028	Patel Avni Navinbhai	5	5
6	140090107029	Patel Bhumi Arvindbhai	6	6
6	140090107033	Patel Falgun Dharmeshbhai	6	6
6	140090107035	Patel Jainixaben Sanjaybhai	6	6
6	140090107040	Patel Parsisbahen Arvindbhai	6	6
7	140090107041	Patel Romaben Nareshbhai	7	1
7	140090107045	Pawar Richi	7	1
7	140090107047	Radadiya Shradhdha Kanubhai	7	1
7	140090107048	Ramani Harsh Kamleshbhai	7	1
8	140090107050	Shah Meet Giteshbhai	8	2
8	140090107051	Shah Shubham Bhavin	8	2
8	140090107052	Shah Smit Dharmeshkumar	8	2

8	140090107053	Shroff Vishv Rakeshkumar	8	2
9	140090107057	Surti Nishi Dushyantkumar	9	3
9	140090107058	Tamboli Hitaxiben Devdattkumar	9	3
9	140090107059	Tandel Hiralben Jagdishchandra	9	3
9	140090107061	Trivedi Parth Kishorkumar	9	3
10	140090107062	Upadhyay Krishnaben Ashish	10	4
10	140090107063	Vazhappally Divyamol Devassibhai	10	4
10	140090107064	Vishvesh Soni	10	4
10	150093107002	Contractor Ankita Naresh	10	4
11	150093107003	Fitter Juhi Mukeshkumar	11	5
11	150093107008	Patel Hiral Babruvanbhai	11	5
11	150093107009	Patel Krutikaben Nareshbhai	11	5
12	150093107011	Patel Richaben Satishbhai	12	6
12	150093107012	Patel Sweta Pareshkumar	12	6
12	150093107013	Patel Vigneshaben Arunbhai	12	6