

**BANGALORE INSTITUTE OF TECHNOLOGY
K R ROAD, V V PURA, BENGALURU-04
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Big Data Analytics -based Case study 2025-26 (ODD)
Batch: 2022 CBCS**

**Course Title : Big Data Analytics
Marks Allotted: 20 marks**

Course Code :BCS714D

Guidelines for Big Data Analytics -based Case study

1. A case study must be executed based on any Big Data Analytics as part of your content beyond syllabus component. Choose a real-world domain (e.g., healthcare, smart cities, e-commerce, finance, cybersecurity, IoT, social media). Explain why this real-time application is relevant for Big Data analytics.
2. Present the Big Data analytics framework used — this may include:
 - a.Data collection and storage method (HDFS, MongoDB, etc.)
 - b.Data preprocessing/cleaning approach
 - c.Analytical method (machine learning, clustering, visualization, etc.)
 - d.Expected outcomes or KPIs (accuracy, performance, insights).
3. Provide details of the dataset(s) used
4. Sample Input and Expected Analytics Output
 - a.Present example input data (e.g., a few rows or JSON records).
 - b.Describe what kind of analytics output is expected
5. Description of Big Data Analytics Tool Used
 - a.Specify the tool or platform used for analysis (e.g., Hadoop, Spark, Hive, Pig, MongoDB, Kafka, Tableau, Power BI).
 - b.Justify why this tool was chosen — based on scalability, ease of use, compatibility, or analytical capability.
 - c.Provide a short description of its working and how it fits into your workflow.
 - d.Mention the hardware/software environment (system specs, versions, configurations).
6. Include background information, motivation, and potential impact of applying analytics to this domain.

Team members – 4

Marks allocation:

- **Presentation - 10M Report - 10M**

Tentative dates for presentation: 8, 9 November 2025