Day 1:

1. Kafka Installation in local Windows.
2. Create topics.
3. Produce data for topics.
4. Read from Kafka topics.
5. Shared the Apache Kafka Book.

Day 2:

1. Cluster with 2 nodes (Practical).
2. Topics with Replication Factor.
3. Demo on Replication.
4. Producer and Consumer creation in Python.
5. Produce messages in JSON format and consume in JSON format.

Day 3:

1. Consumer list using CLI.
2. Consumer Describe and explain all fields.
3. Reset Offsets.
4. Understand consumer lag.
5. Consumer group rebalancing and heartbeat process.
6. Auto offset reset to earliest and latest.
7. Maven Installation.

Day 4:

1. Docker Desktop Installation. https://github.com/bibhutichakraborty/Kafka-Docker-Setup
2. Kafka Java Consumer.

Day 5:

1. Setup Containerized environment for Kafka with Confluent component.
2. Walkthrough of Confluent Control Center.

Day 6:

1. Cloudera Manager installation.

Day 7:

1. Cloudera Manager installation.

Day 8:

1. Java APIs walkthrough and demo. (Producer API, Consumer API, Admin Client, Kafka Streams)

https://github.com/bibhutichakraborty/KafkaDemo

Day 9:

1. Kafka Connect. Demo with source and sink connectors. MySQL connector Demo.

Day 10.

1. Kafka Schema Registry. AVRO samples are in GitHub. https://github.com/bibhutichakraborty/KafkaAvroClients

Day 11.

1. Kafka Security.