

NIELIT Virtual Academy

COURSE PROSPECTUS

Name of the Course: *Introduction to NoSQL*

Mode of the Conduction: Self Paced

Duration: 2 Hrs

Objective of the Course

The objective of this course is to provide participants with a solid foundation in NoSQL databases. The course is open to everyone. Overall, the course aims to equip participants with the fundamental skills necessary to understand and work with NoSQL databases.

Prerequisites

- ✓ Candidate must have latest computer/laptop with preferably 4 GB RAM or higher and Graphics Card (2 GB)
- ✓ Internet connection with good speed (preferably 2Mbps or higher)

Outcome of the Course:

Upon completion of the course, participants can expect to achieve:

- ❖ **NoSQL Overview** – Understanding Fundamentals, SQL vs. NoSQL, and advantages.
- ❖ **Types of NoSQL** – Key-Value, Document, Column-Family, and Graph databases.
- ❖ **Usage** – Real-world applications and when to choose NoSQL.
- ❖ **Ecosystem** – Key NoSQL databases: Cassandra, MongoDB, Redis, Neo4j.
- ❖ **Apache Cassandra** – Features, Architecture, Installation process, and Data modeling.

Course Fee: NIL

Eligibility: NIL

Methodology:

- ✓ Teaching Mode: Self-Paced

Registration Link: <http://nva.nielit.gov.in>

Contact Details:

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Course Structure:

Module No	Module Title	Duration (Hours)
1	Introduction to NoSQL	02
2	Architecture of Apache Cassandra	
3	Apache Cassandra: Installation & Configuration	
4	Understanding Apache Cassandra Data model	