

National Institute of Electronics & Information Technology

Gorakhpur



(Under Ministry of Electronics and Information Technology, Govt. of India) MMMUT Campus, Deoria Road, Gorakhpur-273010 https://www.nielit.gov.in/gorakhpur/

NoSQL Database - MongoDB





National Institute of Electronics & Information Technology Gorakhpur

(Under Ministry of Electronics and Information Technology, Govt. of India) MMMUT Campus, Deoria Road, Gorakhpur-273010 https://www.nielit.gov.in/gorakhpur/



Course Content					
Day	Торіс	Day	Торіс	Day	Торіс
Day #01	 Need of a database Different types of database, Relational vs. Non- relational database, Installation of Mongodb 	Day #02	 Introduction to NoSQL Databases, NoSQL features, Different types of NoSQL databases Introduction to MongoDB, MongoDB architecture, 	Day #03	 Data modelling in MongoDB, Advantages of MongoDB over RDBMS, Mongo Shell, Configuration file in MongoDB,
Day #04	 JSON File format for storing documents Introduction to Documents, Collections, Database Commands in Mongodb, Inserting and Saving Documents Inserting multiple documents 	Day #05	 Updating Documents Removing Documents, Document Replacement Operator and Modifiers, 	Day #06	 Indexing in MongoDB, Single index Finding index Multikey index
Day #07	 Aggregation Framework Pipeline Operations- \$match, \$sort, \$group 	Day #08	 Pipeline Operations- ,\$project,, \$unwind ,\$limit, \$skip, 	Day #09	MapReduce,Aggregation commands
Day #10	 Replication, Advantages of replication Implementation of replication Managing Configuration File in MongoDB Setting up replica set in MongoDB, 	Day #11	 Replication configuration , Checking the Configuration Change replication configuration, Replication status Remove members Adding new port in replica set 	Day #12	 Terminologies used in replication, Help on replication, Adding arbitrator Stepping down a member
Day #13	 Backup and restore Export and import of data 	Day #14	 Importing from JSON file Choosing the right database , Database era Taking decisions on database, 	Day #15	 Strengths and weakness of database Free and open source database

Course Coordinator

Smt. Indulata Gupta (T.O) NIELIT Gorakhpur Email: <u>indulata@nielit.gov.in</u> Mobile Number: **8317093895**

CLICK HERE TO REGISTER