



**J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY**

(Accredited by NBA&NAAC, Approved by AICTE & Permanently Affiliated to JNTU H Hyderabad)  
Yenkapally (Vi), Moinabad (M). P.O. Himayat Nagar, RR District, Hyderabad 500075

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Guest Lecture on NoSQL DATABASE**

**Date 2/04/2025**

**CIRCULAR**

This is to inform all the III Year students that the Department of Computer Science and Engineering, JBIET is organizing a Guest Lecture on “**NoSQL DATABASE** “ on **05/04/2025**. All the students are hereby informed to utilize this opportunity and must attend the session.

**HOD-CSE**



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## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **Report on**

### **Guest Lecture on NoSQL DATABASE**

#### **Introduction**

A guest lecture on “**NoSQL DATABASE**” was organized on 05/04/2025 by the **Department of Computer Science and Engineering** as part of its academic enrichment activities. The session was delivered by **Mr.Srikanth .K** Assistant Professor from MallaReddy Engineering College Campus 1, Dulapally Road Maisammaguda Hyderabad, to enhance students’ knowledge of modern database technologies that go beyond traditional relational models. NoSQL databases have become essential in handling unstructured and semi-structured data efficiently. The session aimed to provide insights into the concepts, types, and applications of NoSQL databases.

- **Topic:** NoSQL Databases
- **Date:** 05/04/2025
- **Speaker:** Mr.K.Srikanth , Assistant Professor, MallaReddy Engineering College
- **No of Participants:** 80 Students

#### **Highlights of the Session**

##### **1. Introduction to NoSQL**

- Difference between SQL and NoSQL databases
- Need for NoSQL in the era of big data and scalability.

## 2. Types of NoSQL Databases

- **Key-Value Stores** (e.g., Redis, DynamoDB)
- **Document Stores** (e.g., MongoDB, CouchDB)
- **Column-Oriented Databases** (e.g., Cassandra, HBase)
- **Graph Databases** (e.g., Neo4j, OrientDB)

## 3. Advantages of NoSQL

- High scalability and performance
- Flexible schema for unstructured data
- Efficient handling of large-scale distributed systems

## 4. Applications of NoSQL Databases

- Social media platforms
- E-commerce and recommendation systems
- Real-time analytics
- Cloud-based applications

## Outcome of the Lecture

- Students gained **awareness of modern database technologies** beyond traditional RDBMS.
- Participants understood **where and why NoSQL databases are preferred** over SQL.
- Students learned about **different types of NoSQL databases** and their practical applications.
- The session encouraged learners to **explore career opportunities** in database management, big data, and cloud computing.

## Conclusion

The guest lecture on NoSQL Databases was highly informative and engaging. It provided valuable insights into how organizations manage massive datasets using modern database technologies. The knowledge gained will help students in academic projects, research, and future careers in IT and data-driven industries.



**Fig-1 Mr.Srikanth .K delivering the Session to the students**



**Fig-2 Mr.Srikanth . delivering the session to the students**

## **ATTENANCE**

| <b>Sl.No.</b> | <b>Roll No.</b> | <b>Name of the Student</b>   |
|---------------|-----------------|------------------------------|
| 1             | 23671A0501      | AAKAM ROHITH                 |
| 2             | 23671A0502      | ANAND RATHOD                 |
| 3             | 23671A0503      | ANUMALLA RAHUL               |
| 4             | 23671A0504      | B KARTHIK REDDY              |
| 5             | 23671A0505      | BACHU RAHUL                  |
| 6             | 23671A0506      | BADDURI ADITHYA              |
| 7             | 23671A0507      | BAGARI NIKHIL                |
| 8             | 23671A0508      | BAKKANI VAISHNAVI            |
| 9             | 23671A0509      | BASHABOINA SWATHI            |
| 10            | 23671A0510      | BHAVANI GUMDAL               |
| 11            | 23671A0511      | BHUKYA AKASH                 |
| 12            | 23671A0512      | BOJJA AKSHITH                |
| 13            | 23671A0513      | BOLGAM MAHESH BABU           |
| 14            | 23671A0514      | CH PRADEEP                   |
| 15            | 23671A0515      | CHENNARAM BHARATHSIMHA REDDY |
| 16            | 23671A0516      | DARPALLY OMKAR REDDY         |
| 17            | 23671A0517      | DASARI JATHIN KUMAR          |
| 18            | 23671A0518      | DHANAVATH SRI NAIK           |
| 19            | 23671A0519      | DHARAM ABHISHEK              |
| 20            | 23671A0520      | GUDLA AKSHAYA                |
| 21            | 23671A0521      | J SAI VAMSHI VARDHAN         |

|    |            |                                   |
|----|------------|-----------------------------------|
| 22 | 23671A0522 | K SHIVA                           |
| 23 | 23671A0523 | K.NISHANTH                        |
| 24 | 23671A0524 | KAMARAJU SHASHI KIRAN             |
| 25 | 23671A0525 | KAMMARI NITHISH KUMAR             |
| 26 | 23671A0526 | PANTAM UDAY KIRAN YADAV           |
| 27 | 23671A0527 | KURNAPALLY VAISHNAV               |
| 28 | 23671A0528 | M PRASHANTH KUMAR                 |
| 29 | 23671A0529 | MADHAVANENI SRIJANITH             |
| 30 | 23671A0530 | MANDAGIRI VANAJA                  |
| 31 | 23671A0531 | MANGELA SHIVAGANESH               |
| 32 | 23671A0532 | MOHAMMED AFTAB JUNAID             |
| 33 | 23671A0533 | MUDAVATH MUKESH                   |
| 34 | 23671A0534 | MUNJALA SIRIHASINI                |
| 35 | 23671A0535 | MYAKALA RETHWIK                   |
| 36 | 23671A0536 | NANDIGAMA SHIVA KUMAR             |
| 37 | 23671A0537 | NENAVATH PAVAN KUMAR              |
| 38 | 23671A0538 | PAMARTHI GNANESHWARI              |
| 39 | 23671A0539 | POODARI PRATHYUSHA                |
| 40 | 23671A0540 | PULICHERI SINDHUJA                |
| 41 | 23671A0541 | PUPPALA SAMANVITHA                |
| 42 | 23671A0542 | RAMIDI MONISH REDDY               |
| 43 | 23671A0543 | RAVULA ANJU SREE                  |
| 44 | 23671A0544 | SAKSHI YADAV                      |
| 45 | 23671A0545 | SHAIK SOHAIL AZAIN ABDUL<br>RAFIK |
| 46 | 23671A0546 | SUNDAL BASAVA SAGAR               |
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|----|------------|-------------------------------|
| 48 | 23671A0548 | THEEGELA AKHILA SRI           |
| 49 | 23671A0549 | V RISHI                       |
| 50 | 23671A0550 | VEERAMUSTI SAI DHANUSH        |
| 51 | 23671A0551 | VELMALA SHRAVAN REDDY         |
| 52 | 23671A0552 | THENMATAM KALYANA<br>CHARYULU |
| 53 | 23671A0553 | DANNARAM ANJI REDDY           |
| 54 | 23671A0554 | YANAGANDULA SAITEJA           |
| 55 | 23671A0555 | BILLAPATI SRIKANTH REDDY      |
| 56 | 23671A0556 | SHAKKARAGARI MANOJ REDDY      |
| 57 | 23671A0557 | VASANTHA SWATHIKA             |
| 58 | 23671A0558 | ADARSH                        |
| 59 | 23671A0559 | KUNURU NIKHIL                 |
| 60 | 23671A0560 | KONDA RAJESH REDDY            |
| 61 | 23671A0566 | BADAVATH SAHITHI              |
| 62 | 23671A0567 | BALLA JESSICA                 |
| 63 | 23671A0568 | BHASKARWAR ADITYA             |
| 64 | 23671A0569 | BOBBALA SAMEERA               |
| 65 | 23671A0570 | BODDU KAVERI                  |
| 66 | 23671A0571 | BORAWAT LAXMAN KUMAR          |
| 67 | 23671A0572 | CHAKALI SIDHARTHA             |
| 68 | 23671A0573 | DEGAVATH PRASHANTH            |
| 69 | 23671A0574 | DYAMAKKA SHARMISHTA           |
| 70 | 23671A0575 | ESAM PUNEETH KUMAR            |
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| 75 | 23671A05B4 | AMGOTH PAVAN KUMAR      |
| 76 | 23671A05B5 | ASHAYYAGARI HARITH GOUD |
| 77 | 23671A05B6 | ATYAM POOJITHA YADAV    |
| 78 | 23671A05B7 | BANAVATH JAGADEESH NAIK |
| 79 | 23671A05B8 | BARLA SAI GANESH        |
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