XAVIER INSTITUTE OF ENGINEERING
Department of Information Technology
(NBA Accredited)

(Approved by AICTE, Accredited with "A+" by NAAC, Afffiliated to Mumbai University,
Recognized by DTE, Govt. of Maharashtra)

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Title of the event: Java Database Connectivity

Event Date / Time: 26th September 2024 / 1:30 PM to 3:30 PM

Event Coordinators: Ms. Jyotsna More

Speaker of Event: Nithin Nayak

No. of Participants: 69   **Class/Semester:** SE-IT/III

Objectives:

Conceptual Clarity: Ensure students grasp the fundamental role of JDBC in application development.

Practical Exposure: Provide hands-on experience in developing a prototype page using NetBeans IDE and JDBC in MySQL.

Problem-Solving Algorithms: Explore the use of JDBC in designing efficient algorithms for problem-solving.

Interactive Learning: Foster an engaging environment for active student participation.

Database Functionality: Showcase the practical aspects of database functionality, emphasizing real-time transactions.

Encouragement for Future Learning: Motivate students to seek further guidance and support for continuous learning.

Description:

On September 26, 2024, a special lecture on Java and Database Connectivity (JDBC) unfolded at Xavier Institute of Engineering. Ms. Jyotsna More, the Subject teacher, arranged for a student Nithin Nayak, a Third Year Engineering Student, to guide students through the intricacies of JDBC.

The session kicked off with a comprehensive introduction to JDBC connections, underscoring their central role in any application. Nithin shed light on the efficiency of databases, with a specific focus on MySQL guidance as included in their syllabus, using servers like Wamp for database maintenance. Nithin's efforts came to life as he led a practical demonstration. He not only crafted a prototype of small demo application but also elucidated the nuanced relationship between frontend and backend. Students gained hands-on experience in establishing connections, understanding the role of API, and also grasping the importance of drivers.

Navigating through NetBeans & MySQL connection methods, Nithin demystified complex concepts with a basic example of MySQL connection through a simple login form, making it accessible even to student who created their own login pages using NetBeans. Real-life examples were provided, introducing the concept of API and its role in application development. Students gained a valuable information about the use of NetBeans and the concepts of JDBC.
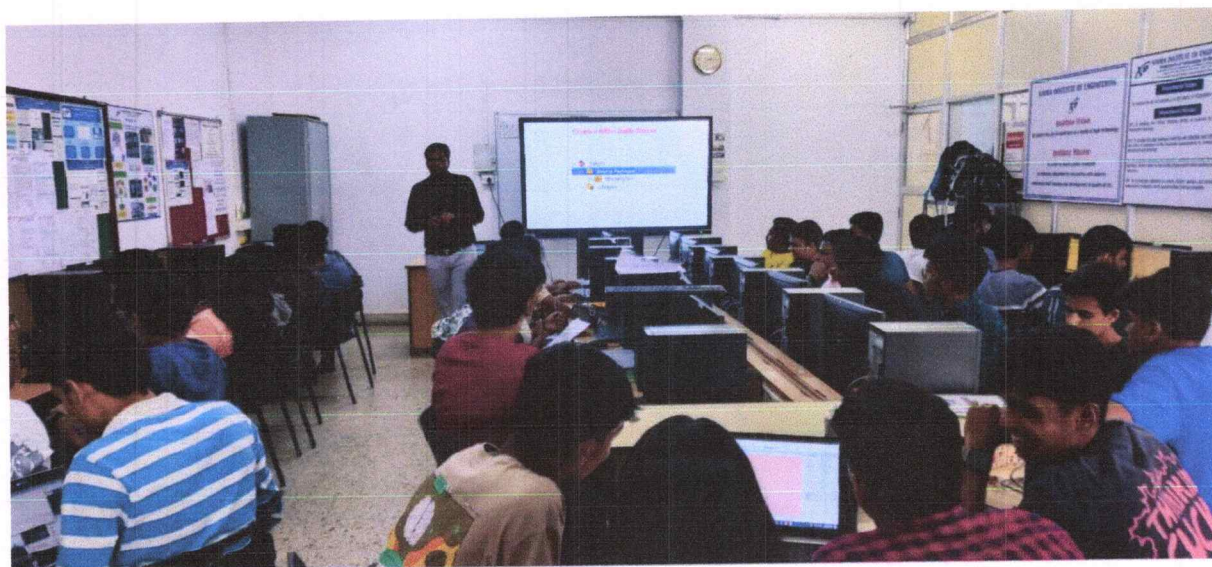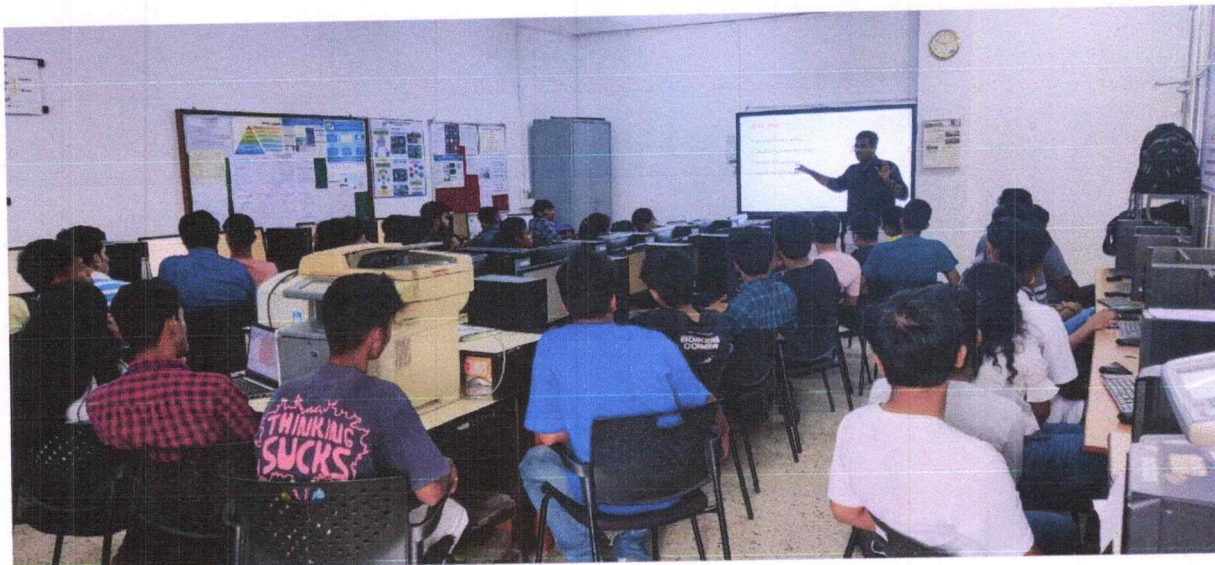
The session showcased database functionality, with Nithin demonstrating a real-time balance check in transactions using his own mini project. The backend magic was revealed as he explained how the application automatically adjusted the account balance after an online payment, ensuring a seamless and efficient user experience. The latter part of the session focused on JDBC structure, detailing requirements, methods, and statements such as PreparedStatement and Connection. Nithin provided an overview of how JDBC connections could be utilized efficiently. The session concluded with all the students connecting their databases and front end login pages successfully. This built a confidence within them for continuing with their mini projects.

Nithin encouraged students to reach out whenever needed, assuring them of continued guidance. Nithin actively helped the students during the session, creating a collaborative learning environment. In essence, the special lecture not only covered the technical aspects of JDBC but also provided practical insights, making it an engaging and enriching experience for the SE IT students at Xavier Institute of Engineering.
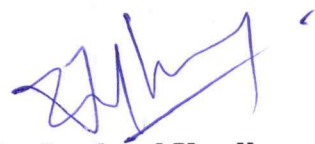
POs achieved: PO1, PO2, PO5, PO8, PO9, PO10, PO12

PSOs achieved: PSO1, PSO2

Event Photos:

Ms. Jyotsna More   Dr. Jaychand Upadhyay   Dr. Y.D. Venkatesh

Event Coordinator   HOD-IT   Principal