A Report on

Two Days Professional Development Programme Hands on Training titled "Series : -I Advanced Java for Industry-Ready Application Development"

Organized by Department of Computer Science & Engineering from 05.02.2026 to 06.02.2026

Report Submitted by: Dr. R. Sudhakar, Associate Professor, Department of Computer Science & Engineering & Dr. G. Arun Kumar, Associate Professor, Department of Computer Science & Engineering.
Resource Person Details: Ms. R. Kavya , Senior Technical Trainer , Rampex Technologies, Chennai
Time: 10:00 AM to 4: 00 PM
Mode of Conduct: Offline
Report Received on 28.02.2026.

Report of the Event :

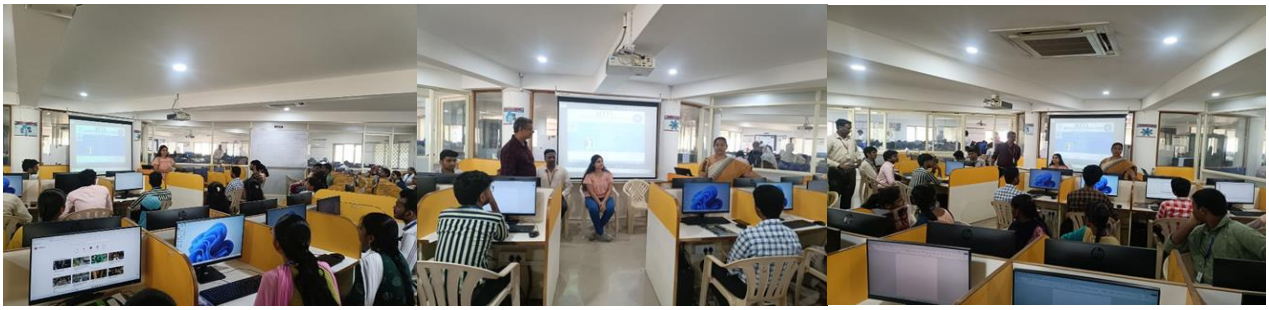
The Department of Computer Science & Engineering organized a Two Days Professional Development Programme – **Hands on Training titled "Series – I: Advanced Java for Industry-Ready Application Development**" on 05 February 2026 and 06 February 2026 for II-Year CSE students. The programme aimed to equip students with advanced Java programming skills aligned with industry requirements.

The inaugural session commenced at 10:00 AM on Day 1 with a brief introduction highlighting the importance of advanced Java technologies in modern software development and enterprise application design.

Dr. R. Sudhakar, Associate Professor, Department of CSE, delivered the welcome address and emphasized the importance of mastering advanced programming concepts to meet the evolving demands of the IT industry.

Professor & Head of the Department – CSE, Dr. M. Sreedevi, addressed the gathering and encouraged students to actively participate in the hands-on sessions to enhance their practical knowledge and technical competence.

Dr. G. Arunkumar, Associate Professor, Department of CSE, introduced the resource person and highlighted the relevance of advanced Java frameworks and backend development skills in campus placements and industry roles.



DAY – 1 TECHNICAL SESSION

Ms. R. Kavya initiated the session with an overview of Advanced Java concepts and their applications in enterprise-level software systems.
The topics covered on Day 1 included:

- Review of Core Java fundamentals
- Object-Oriented Programming principles in depth
- Exception Handling and Best Practices
- Multithreading Concepts
- Collections Framework and Generics
- File Handling and I/O Streams

The session was highly interactive, with students working on practical coding exercises. The resource person demonstrated real-time coding examples and encouraged students to debug and optimize their programs.
Students were guided on:

- Writing clean and efficient code
- Handling runtime errors effectively
- Implementing multithreading applications
- Working with Java Collections for data management

Hands-on practice sessions enabled students to implement concepts immediately after explanation.

DAY – 2 TECHNICAL SESSION

The second day focused on enterprise application development using Advanced Java technologies.
Topics covered included:

- JDBC (Java Database Connectivity)
- Connecting Java Applications with MySQL Database
- CRUD Operations using JDBC
- Introduction to Servlets and JSP
- MVC Architecture
- Mini Project Development (Database-Driven Application)

The resource person demonstrated how to:

- Establish database connections
- Execute SQL queries through Java
- Handle user input via Servlets
- Integrate backend logic with frontend interface
- Deploy and test web-based applications

Students actively developed a mini project under guidance, implementing a simple database-driven web application.
The practical exposure helped students understand real-time project structure and deployment practices followed in the industry.

QUESTION & ANSWER SESSION

Both days concluded with interactive Question & Answer sessions. Students raised queries related to:

- Multithreading implementation challenges
- Database connectivity errors
- Debugging techniques
- Industry expectations for Java Developers
- Career opportunities in Backend Development

Ms. R. Kavya addressed all queries patiently and provided practical tips to improve coding efficiency and interview performance.

Vote of Thanks

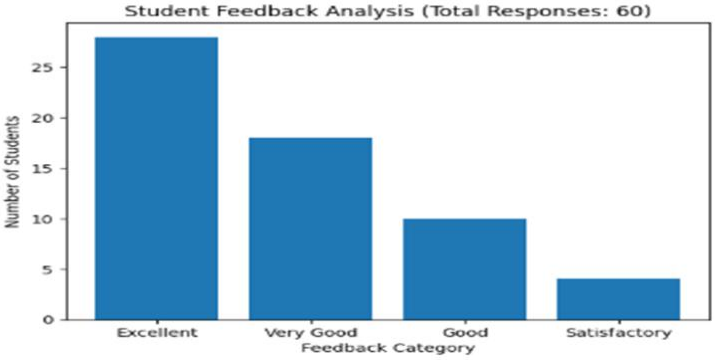
The programme concluded with a Vote of Thanks delivered by Dr. G. Arunkumar, Programme Coordinator and Associate Professor, Department of CSE. He expressed sincere gratitude to the Management, Principal, Head of the Department, Resource Person, faculty members, and students for their active participation and support in making the programme successful.

Outcomes of the Programme

1. **Enhanced Advanced Java Knowledge:** Students gained in-depth understanding of multithreading, collections, JDBC, Servlets, and JSP.
2. **Improved Practical Coding Skills:** Hands-on sessions strengthened students' ability to write, debug, and optimize Java programs.
3. **Industry-Oriented Application Development Skills:** Students learned to develop database-driven web applications using real-time methodologies**.**
4. **Better Understanding of Backend Development:** Exposure to MVC architecture and enterprise-level programming enhanced their readiness for industry roles.
5. **Increased Confidence for Placements:** The training boosted students' confidence in attending technical interviews and coding assessments.

Student Feedback About the Programme

Students expressed that the two-day hands-on training was highly informative, practical, and industry-oriented. They appreciated the real-time coding demonstrations, mini project development, and interactive doubt-clearing sessions. Many students stated that the programme significantly improved their understanding of advanced Java concepts and boosted their confidence in backend development.


Student Feedback Analysis (Total Responses: 60)
Number of Students
0
5
10
15
20
25
Excellent
Very Good
Good
Satisfactory
Feedback Category