XAVIER INSTITUTE OF ENGINEERING
Department of Information Technology
(NBA Accredited)
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Title of the event: "Innovative Pedagogy for Java Programming"

Event Date / Time: During Lectures

Class- SEIT

Event Coordinators: Prof. Meena Ugale, Prof. Sulochana Devi.

Teaching Methodology: YouTube Video Lectures followed by Interactive Teaching

No. of Participants: Students present during lectures

Objectives: The primary objective of the lecture series was to introduce second-year Information Technology (SEIT) students to innovative teaching methodologies in the Java Programming subject. The goal was to make complex topics more accessible and engaging by incorporating multimedia resources such as YouTube video lectures, followed by detailed explanations and interactive discussions.

Description: The pedagogy implemented during the lectures aimed to blend traditional teaching methods with modern digital tools to enhance the learning experience. For certain core topics in Java programming, carefully curated YouTube video lectures were shown to the students. These videos, selected for their high-quality explanations and visual aids, served as a foundation for understanding the concepts.

After the video sessions, the teaching continued with detailed explanations, interactive discussions, and live coding demonstrations. The topics covered and their links during the sessions are:

- **Object-Oriented Programming (OOP) Concepts:** https://youtu.be/0KJmkczEJEQ?si=E1STSo9UabmVWaUg
- **Abstraction:** https://youtu.be/mjoxrIuqaSE?si=MNAoPspr2cOYSo22
- **Inheritance:** https://youtu.be/EO12PtVxaE8?si=AhOlc5LgCxYQhrsv
- **Polymorphism:** https://youtu.be/mRNpD2LFHs8?si=EMn7VBROb9nrWdFG

The teaching sessions encouraged active participation from students, with a focus on fostering problem-solving skills. Students were invited to discuss the video content, clarify doubts, and participate in coding exercises to reinforce their understanding.

Feedback:
Students liked the mix of video lectures and interactive teaching. The videos made complex topics easier to understand, and the follow-up discussions and coding exercises helped them learn better. This approach kept them engaged and made the concepts clearer.

Outcomes:
The use of video lectures along with teaching helped students understand difficult topics better, stay interested in the subject, and actively participate in discussions. It made learning Java programming more engaging and effective.

Prof. Meena Ugale / Prof. Sulochana Devi

Dr. Jaychand Upadhyay