We Make You Shine

St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR (2024-2025) ODD SEMESTER

INNOVATIVE TEACHING

Name of Pedagogy Used:	**VISUAL TEACHING MODEL**
Branch/Year/Sem/Sec:	**CSE/III YEAR/ V SEM/A SECTION**
Subject Code/Subject Name:	**CS4552/** Theoretical Computation and Compiler Design
Topic:	**FORMAL LANGUAGES**
Date/Period/Timing	**30.09.2024 &7.50 AM TO 8.40 AM (A SEC)**
Objective	To understand the concepts of formal languages and their properties through interactive simulations.(CO3)
Description	Using JFLAP as a visual tool to demonstrate finite automata significantly enhances student learning. This software simplifies complex concepts, turning the workings of finite automata into interactive simulations that show how the machine processes input, changes states, and manipulates symbols. By engaging with these dynamic representations, students can more effectively understand the theoretical principles of computation and algorithm design. Moreover, JFLAP enables learners to visualize the machine's behavior in real-time, deepening their comprehension of key concepts like state transitions and machine configurations. This approach not only makes the material more approachable but also promotes better retention of knowledge, as students can observe the effects of different inputs and operations, ultimately creating a more interactive and enriching educational experience.
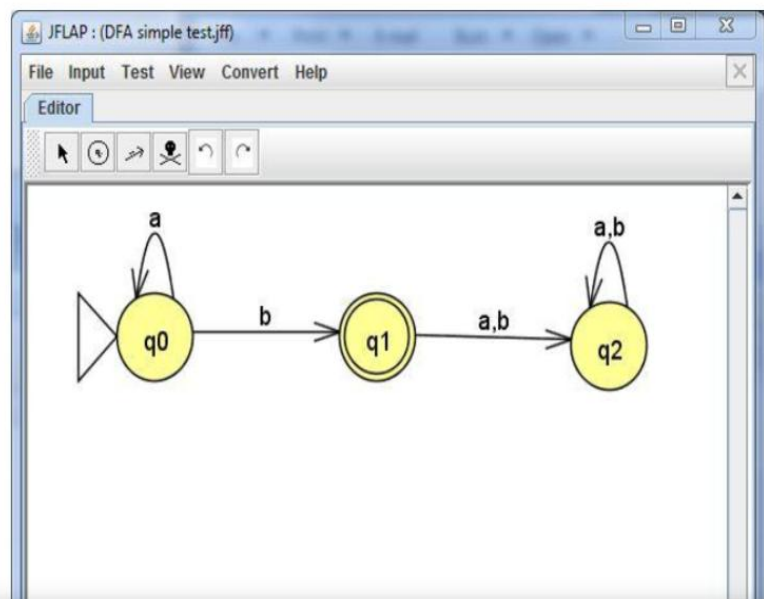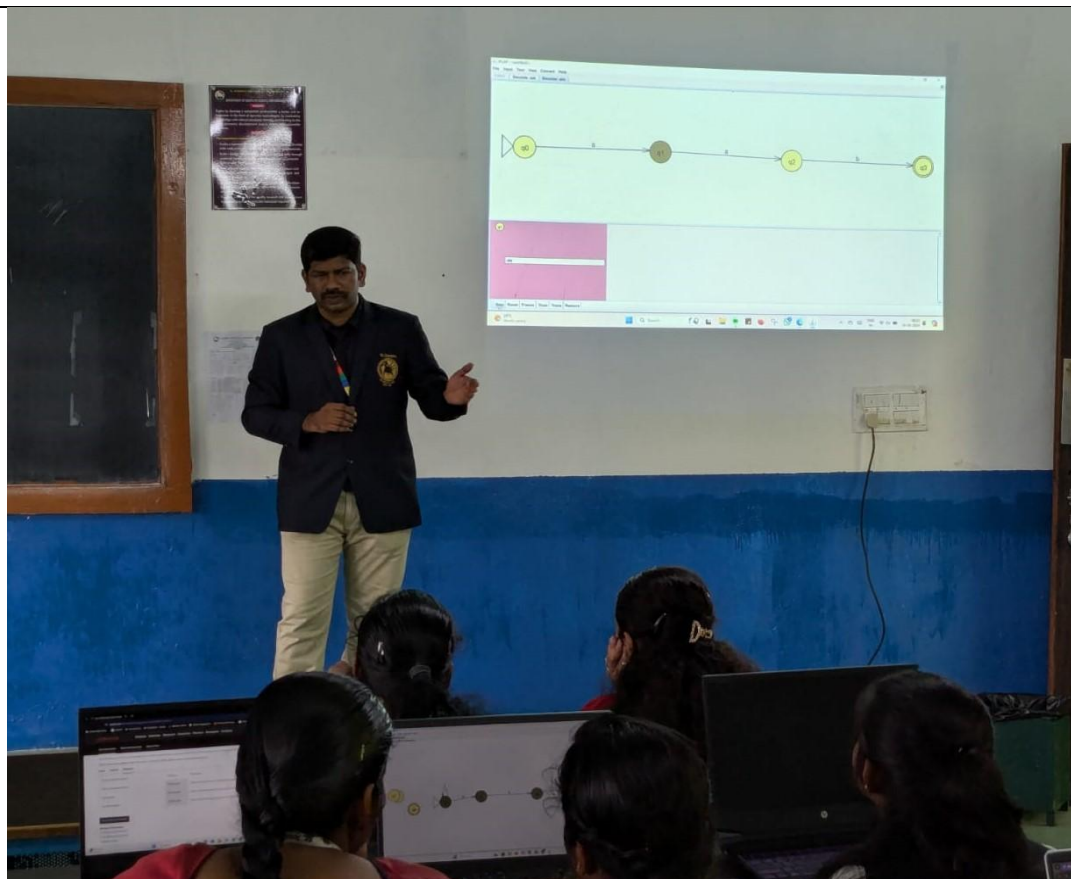
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Students Feedback	*312422104015:*Using JFLAP to explore finite automata was a transformative experience for me! The interactive simulations made it significantly easier to understand how the machine processes input and moves between states. I appreciated being able to visualize the concepts in real-time, which greatly enhanced my grasp of the theoretical foundations of computation. This hands-on approach truly enriched my understanding and made the learning experience enjoyable. *312422104022:*I found JFLAP to be extremely beneficial for learning about the functionality of finite automata. The visual representations simplified complex concepts into digestible parts, and I liked how I could manipulate inputs and instantly observe the results. This interactive tool not only clarified my understanding of state transitions but also made the subject much more engaging. Overall, it significantly improved the effectiveness of my learning process.
Total No. of Students	*62*
No. of Students Present	*56*
No: of Students Absent	*06*

Action Plan for Absentees	It is planned to organize a dedicated review session before Model Exam for students who missed the Session. This session will include a comprehensive recap of the material, along with hands-on activities and visual aids to reinforce understanding.

Practise Session Proof
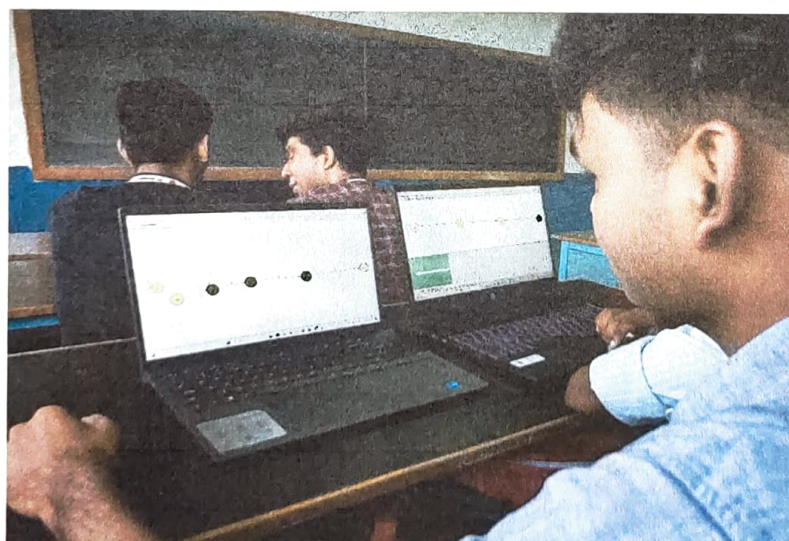
Dr. Deepak Kumar A

Faculty In-charge

HOD/CSE

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