



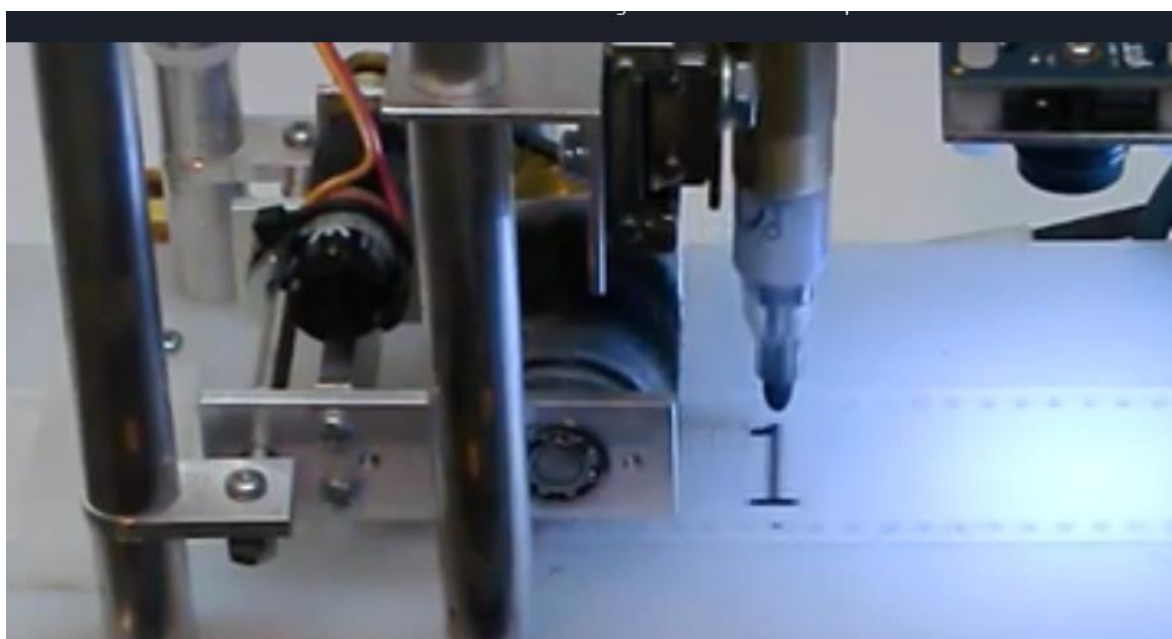
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St. JOSEPH'S INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119

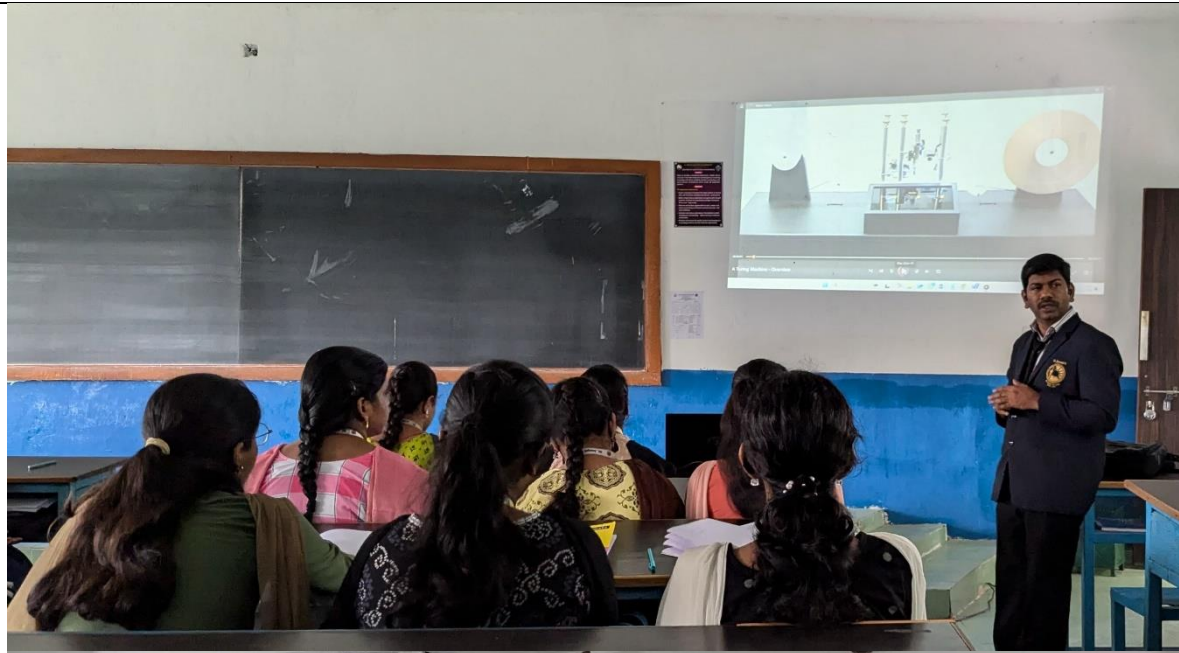
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR (2024-2025) ODD SEMESTER

INNOVATIVE TEACHING

Name of Pedagogy Used:	<u>VISUAL TEACHING MODEL</u>
Branch/Year/Sem/Sec:	<u>CSE/III YEAR/ V SEM/A SECTION</u>
Subject Code/Subject Name:	CS4552/ Theoretical Computation and Compiler Design
Topic:	TURING MACHINE
Date/Period/Timing	<u>26.09.2024 & 7.50 AM TO 9.30 AM (A SEC)</u>
Objective	To understand the Working principle of Turing Machine (CO3)
Description	Utilizing animated videos as a visual teaching method to explain the working model of a Turing machine offers significant advantages for student learning. This approach presents complex concepts visually, breaking down the intricacies of the Turing machine's operations into easily digestible animations that illustrate how the machine processes input, manipulates symbols on a tape, and transitions between states. By engaging with these dynamic representations, students can better grasp the theoretical underpinnings of computation and algorithm design. Additionally, animated videos allow learners to visualize the machine's functionality in real-time, enhancing their understanding of key

concepts such as state transitions and machine configuration. This method not only makes the material more accessible but also fosters a deeper retention of knowledge, as students can see the effects of different inputs and operations, ultimately leading to a more interactive and enriching educational experience.





Students Feedback

312422104005: I found the animated videos on the Turing machine really helpful! The visual representation made it much easier to understand how the machine processes information step by step. Seeing the transitions between states in real time clarified concepts I struggled with before. This approach not only kept me engaged but also helped me retain the information better. I wish more topics related to Finite Automata to taught this way.

312422104012: The use of animated videos to explain the working model of the Turing machine was fantastic. It transformed a complex topic into something visually understandable. I especially appreciated how the animations demonstrated the different operations and transitions, making it

	easier to visualize how the machine functions. This method really enhanced my learning experience and made the theoretical aspects feel much more tangible.
Total No. of Students	62
No. of Students Present	57
No: of Students Absent	05
Action Plan for Absentees	I plan to reteach the students during a model study period, which will not only help those present to review the material but also provide coverage for those who were absent.



Dr. Deepak Kumar A

Faculty In-charge



HOD/CSE

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