

[DEPARTMENT OF COMPUTER SCIENCE]

Innovation by the Faculty in Teaching Learning

1. Learning by Visualization: Learning by visualization is a powerful technique that leverages visual imagery to enhance understanding and retention of information.
 - a. PPT
 - b. Blended mode of teaching Smart Board
2. Instruction delivery using LMS: Instruction delivery using a Learning Management System (LMS) involves using a digital platform to manage, deliver, and track educational content and activities
3. Videos from Faculties (Swayam Prabha) and Self: The videos recorded by the faculty are loaded in the LMS, so that students can learn at their convenience

Name of Faculty	Subject	Link
Dr. Harsh Khatter	Computer Networks	Computer Networks Introduction to Computer Networks AKTU Digital Education - YouTube (https://www.youtube.com/watch?v=MHIYkfsyZOA&t=454s)
Dr. Harsh Khatter	Computer Organization and Architecture	COMPUTER ORGANIZATION AND ARCHITECTURE ARITHMETIC LOGIC UNIT: CARRY LOOK AHEAD ADDER AKTU - YouTube (https://www.youtube.com/watch?v=kAAGF62SHNA&t=617s)
Mr. Anmol Jain	Compiler Design	Compiler Design Lex Compiler and YACC AKTU Digital Education (youtube.com) (https://www.youtube.com/watch?v=DkmPcRBEBNM&list=PL_b5oLDNKAbxos31XFqUrFRZL11fAMOt&index=10) Compiler Design Finite State Machine, Regular Expression and Optimization of DFA AKTU Digital (youtube.com) (https://www.youtube.com/watch?v=ZglanULjBdM&list=PL_b5oLDNKAbxos31XFqUrFRZL11fAMOt&index=4)
Mr. Puneet Kumar Goyal	Data Structure	Introduction to Data Structures By Puneet Kumar Goyal AKTU Digital Education (youtube.com) (https://www.youtube.com/watch?v=HFZ_8uYiPLE&t=13s) Data Structures Delete & Search Operation in Single Linked List AKTU Digital Education (youtube.com) (https://www.youtube.com/watch?v=t7iNdLnSnis)
Mr. Anurag Mishra	Design and Analysis of Algorithm	Shortest Paths By Mr. Anurag Mishra AKTU Digital Education (youtube.com) (https://www.youtube.com/watch?v=ugv5jD5FoMY&t=1314s) String Matching By Mr. Anurag Mishra AKTU Digital Education (youtube.com) (https://www.youtube.com/watch?v=b56833D8z7k)

4. Case Studies: Case studies are detailed analyses of specific instances or examples used to explore and understand complex issues, test theories, and provide insights into real-world applications.

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5. Project based Learning: Project-Based Learning (PBL) is an instructional approach where students engage in real-world projects to acquire knowledge and skills through hands-on, active learning experiences. Unlike traditional teaching methods that focus on direct instruction and passive learning, P PBL emphasizes inquiry, collaboration, and problem-solving.
6. MOOC courses Like (Coursera, LinkedIn Learning): Faculties also suggest courses related to subject from Coursera and LinkedIn so that the student could learn based on global perspectives.
7. Virtual programming Lab Using Moodle: This facility enables students to be access and perform the practical's that are need irrespective of the platform and work from their home.
8. Bootcamp in Operating System 2023-24: This Bootcamp was organized for operating system so that the students could get the complete exposure about the working of the operating systems.

(Dean-CS)