



Innovative Teaching Practice: NPTEL Videos

Faculty Name	P.ASHOK KUMAR
Course Name	DBMS
Academic Year	2021-22
Class	II/II SEM
Topic	Database System Structure, Environment

Objective of the Activity:

NPTEL (National Programme on Technology Enhanced Learning) offers a vast library of free online courses, primarily in engineering and science, accessible through video lectures, slides, and supplementary materials, with the option for optional certification exams. NPTEL are online courses that are open to a large number of participants. They are often provided by universities or educational platforms and cover a wide range of subjects. These courses can include video lectures, readings, assessments, and discussion forums.

NPTEL is an acronym for National Programme on Technology Enhanced Learning which is an initiative by seven Indian Institutes of Technology (IIT Bombay, Delhi, Guwahati, Kanpur, Kharagpur, Madras and Roorkee) and Indian Institute of Science (IISc) for creating course contents in engineering and science. NPTEL provides E-learning through online Web and Video courses in Engineering, Science and Humanities streams.

In-Class Activity:

Instructions:

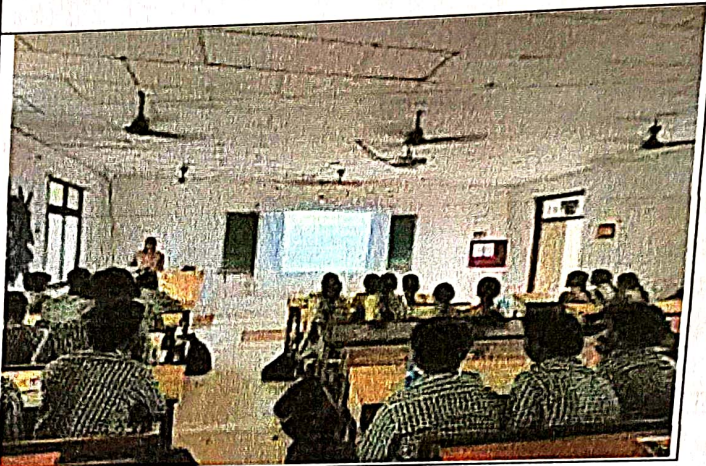
- Watch the NPTEL video on Database System Structure and Environment (instructor provides the exact video link or course section).
- Focus Areas:
 - DBMS components (Database Engine, DBMS Software, User Interface, etc.)
 - DBMS Architecture (Single-tier, Two-tier, Three-tier)
 - Environment in which a DBMS operates (hardware, software, users, and data)
 - Data independence and interaction between DBMS components

Note-Taking: Students should take notes on:

- Key components of a DBMS
- Examples of real-world DBMS environments
- Key concepts like data independence, types of DBMS (relational, hierarchical, network)

Time Allotted for Activity: 50 Minutes

Images / Screenshot of the practice

NPTEL Videos Class Room Activity	Screenshot of the practice
Activity on NPTEL Videos	

Benefits of NPTEL Videos:

- NPTEL are provide students with access to content from international experts, enabling them to learn at their own speed and expand their knowledge beyond traditional classroom settings.
- Career advancement: Learners or working professionals opt for NPTEL to acquire new skills. Seeking new skills and continuous learning can be advantages for career advancement, higher salaries, professional growth, or a better job opportunity.
- NPTEL certificates offer valuable recognition of specialized skills and knowledge, enhancing career prospects and demonstrating expertise in specific domains, making them a valuable asset for students and professionals alike.


Signature of Faculty Member


HOD

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