

Report on Innovative Teaching Practices: Book-end Method for

CST201 DATA STRUCTURES

Academic Year: 2023 - 2024

Semester/Branch: S3 CSE

Subject: CST201 DATA STRUCTURES

Faculty: Ms. Shemimol B

Innovative Teaching Method: Book-end Method

Topic/Question: Graph Representation

Introduction

The goal of this report is to show how new teaching methods were used in the CST 201 Data Structure course, focusing on teaching Graph Representation Using the book-end method. This method is meant to increase student involvement, help them understand better, and encourage active participation in class.

Book-end Method Approach

Overview

In Module 4, called Graph Representation, the book-end method was used to present the course content. This method breaks the lecture into three parts: an introduction, a middle part with interactive activities, and a conclusion. This setup keeps students engaged and reinforces learning with different teaching techniques.

Rationale

The book-end method was chosen because it:

- Encourages active learning and student participation.
- Makes good use of class time by mixing lectures with interactive activities.

Student Response

Application Exercise

After the lecture on Graph Representation, students wrote a brief paper summarizing the main ideas discussed. This activity took place in the classroom, and the papers were reviewed with feedback provided in the next class.

Conclusion

Using the book-end method to teach Graph Representation in Data Structures, where students are engaged through a structured lecture format followed by an application exercise, can greatly improve the learning experience. This method helps students process the material in smaller, manageable parts, stay actively involved, and show their understanding through minute papers.

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