

**A TECHNICAL REPORT ON PEDAGOGY IMPLEMENTED**

**COLLABARATIVE LEARNING**

(GROUP ACTIVITY)

**MATRIX ALGEBRA AND CALCULUS**

**I-I SEM, BRANCH: ECE&CSO**

**DATE OF EXECUTION: 24/03/2022**

**AY: 2021-22**

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# **Hyderabad Institute of Technology and Management**

**Gowdavelli,vill Medchal, Hyderabad-501401**

## **Activity -1**

**Name Of Activity: Group wise learning**

**Course: Matrix Algebra and Calculus**

**Name Of Topic: Legendre's Equation**

**Year/Branch: I B.Tech I Semester CSO**

## **INTRODUCTION ON PEDAGOGY:**

Group activity is a tool in which three or more students learn something together to solve a problem. This is the best tool for the teacher to create platform to the students interaction with other students and share their ideas. This gives more results in education system. There are so many advantages of collaborating learning.

1. Peer to peer learning.
2. Effective team work.
3. Multiple solutions.
4. Deep learning.

## **IMPLEMENTATION:**

- Students work together in groups of Five: a speaker(s)(two members), a questioner(s)(two members), and a note-taker(one member).
- The speaker explains the topic (process of solution) .
- The questioner listens carefully and asks for clarification or further detail
- The note-taker observes this process and provides feedback to both speaker and questioner

**PROOFS:**



Fig. Students were sharing the complete information to their own groups

**OUTCOME:**

The students have awareness about how to solve Legendre's of equation

**Suggestions given to Slow Learner:**

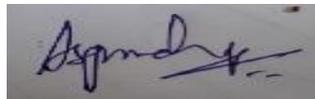
- Counseling given to student how to mingle with their classmates to share their points.
- Improve the confidence it will improve the knowledge
- Participate actively in the activities it will simplify the concepts

**CHALLENGES:**

1. Time not sufficient
2. Require support of another faculty.

**STUDENT FEEDBACK:**

1. More active to participate in the activity
2. feels more satisfactory with outcome of activity



**Submitted by**

**HOD**

**Principal**

*Bandu Uppalaiah*

*Assistant Professor*



**A TECHNICAL REPORT ON PEDAGOGY IMPLEMENTED**

**THINK PAIR SHARE**

**MATRIX ALGEBRA AND CALCULUS**

**I-I SEM, BRANCH: CSO**

**DATE OF EXECUTION: 13/12/2021**

**AY: 2021-22**

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**Gowdavelli,vill Medchal, Hyderabad-501401**

## **ACTIVITY-2**

**Name Of Activity: Think Pair Share**

**Course: Matrix Algebra and Calculus**

**Name Of Topic: Rank of a Matrix by Normal form**

**Year/Branch: I B.Tech I Semester CSO**

### **INTRODUCTION ON PEDAGOGY:**

Pair wise learning is collaborative learning strategy which helps the students to work together to give a solutions or answer to the assigned task. in this method a student thin an answer and share his ides with his pair . This method maximizes the learning levels of the students and increases the creativity.

### **IMPLEMENTATION:**

- Post a challenging question
- Student think quietly about it for a one/two minutes
- Every student pairs up with a partner
- They discuss the question for 5-10 minutes
- Finally the whole class engages in a discussion.
- Students raise their hands and share all the thoughts an ideas they've gathered.

## **PROOFS:**



Fig. Students were sharing the ideas

## **OUTCOME:**

- Student think individually for an appropriate answers on the given topic
- It helps for the development of oral communication and makes the students to share their ideas with other students in a class
- It helps the students to find rank of a matrix by Normal form

**Text books: Engineering mathematics-1**

**Suggestions given to Slow Learner:**

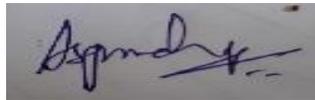
- Counseling given to student how to mingle with their classmates to share their points.
- Practice will improve the efficiency
- Be regular to the class so that there will be continuity

**CHALLENGES:**

1. Lack of time for effective execution and evaluation
2. Require support of another faculty.

**STUDENT FEEDBACK:**

1. More active to participate in the activity.
2. feels more satisfactory with outcome of activity.



**Submitted by**

**HOD**

**Principal**

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