



7. 2.1 Best Practice 2: Adaptation of school

7.2.1.1 Title of the Practice: Adaptation of school

7.2.1.2 Objectives of the Practice: -

Students will be able to:

- Analyze situations, check for limitations, and examine appropriate methods of solutions using trigonometry
- Practice manipulating trigonometric functions
- Work in small groups encouraging classmates and communicating thoughts
- Apply various concepts of right triangle trigonometry
- Apply the concepts of trigonometry to any angle in the rectangular coordinate plane.
- Construct and analyse the graphs of trig functions and their inverses.
- Work with complex numbers in algebraic and trigonometric form.
- Demonstrate knowledge of several trigonometric identities and use them to verify other identities.
- Graph trigonometric functions
- Solve trigonometric equations.

7.2.1.3 The Context of the Practice:

The institute believes that a motivated education to Students in Mathematics, particularly trigonometry is one of the school subjects that very few students like and succeed at, and which most students hate and struggle with. Trigonometry is an area of mathematics that students believe to be particularly difficult and abstract compared with the other subjects of mathematics can be a significant factor in institute's success. When teachers and students are motivated to work at higher levels of their skills and abilities, the institute as a whole run more efficiently and is more effective at achieving its objectives and goals. For this reason, the institute has understood the power of reward systems and how they are helpful in influencing Students behaviour. Rewards are positive outcomes that are earned as a result of students' performance and achievement. These rewards are aligned with institute's objectives and goals.

7.2.1.4 The Practice:

The institute has constituted the following rewards for students and teachers of adapted schools. The mode of reward is in terms of appreciation certificates and mementos.

- I. Best Teacher
- II. Best Class
- III. Topper of the Class
- IV. Subject Topper
- V. Best Class
- VI. Handwritten Letter from Principal
- VII. Celebration Days to students



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7.2.1.5 Evidence of Success: -

- Teachers will get awareness about the latest teaching aids.
- Providing practical oriented teaching.
- Difficulties and barriers of subjects will be cleared thoroughly
- Hands-on training to students by the teachers.
- Bringing school students to this campus and facilitating them to access the college resources. School students come to know about the systems followed in colleges.
- Students are given valuable exposure by using the new and different resources beyond the reach of many public schools.
- Motivating them to take up engineering course

7.2.1.6 Problem Encountered and Resources Required:

Problems encountered:

- Cultural background and participation plays the vital role in their mathematics learning.
- Study also revealed that low participation of students has made them difficult to learn mathematics
- Difficulties in learning trigonometry are due to lack of group discussion, improper use of exercise books and lack of using electronic instructional materials in mathematics.
- Revealed that students have faced difficulties in learning mathematics because the text books are not well planned and contents are not arranged sequentially
- Moreover, mathematics anxiety, negative feeling of mathematics, economic condition, their educational background, school management system, infrastructure of school are the main causes of difficulties in learning mathematics

Resources required:

- Trigonometry Square Activity Sheet 1& 2
- Activity Sheet 1& 2
- Calculators
- Transparencies
- Projects
- Assessments