

**Shri Sant Gajanan Maharaj College of Engineering Shegaon**  
**Department of Electronics and Telecommunication Engineering**

PPTs: <https://11nk.dev/wz9Un>

**Course Title & Course Code:** Mobile Communication (Code: 7ETC04)

**Class:** Final year (4U2)

**Semester:** VII

**Name of the Course Teacher:** A.A. Deshmukh

**Title of the innovative practice:** Power Point Presentation

**Objectives/Goals of the practice:**

The primary goal of this innovative teaching practice is:

1. Provide a clear and logical flow of topics to aid systematic learning.
2. Encourage interactive learning through animations, videos, and discussion prompts.

**Use of Appropriate Methods:**

To achieve the stated goals, the following methods were implemented:

PowerPoint Utilize animations sparingly to emphasize key points without distraction.

2. PowerPoint's features like multimedia, clickable buttons, hyperlinks, and scenarios are which transform the classrooms into vibrant learning environments, thus promoting active participation and genuine student engagement.

**Effective Presentation:**

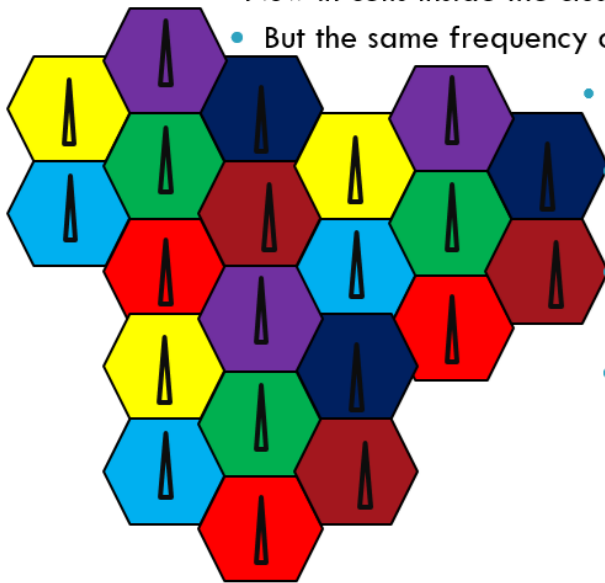
1. Link was shared with all students for review and self -study.
2. Short quiz was conducted to assess student understanding.

## Photo of the activity

# Frequency Reuse

□ Let us consider the example of a cluster consisting of 7 cells

- Now in cells inside the cluster we cannot use the same frequency
- But the same frequency can be used outside the cluster



• So here in diagram we can see that same frequency is used three times.

• The cells using same frequency are called as “**CO-CHANNEL CELLS**”

• And interference between co-channel cells is called as **co-channel interference**

- if  $D$  is the distance between co-channel cells,  $R$  is the cell radius and  $N$  is the cluster size then :

$$\frac{D}{R} = \sqrt{3N}$$

### PO's & PSO's Mapped:

PO1, PO2, PO4, PO6, PO12, PSO2

### Reflective Critique:

The link of *Power Point Presentations* was shared with other faculty members.

Dr. D.P.Tulaskar suggested to add Channel Borrowing technique .

Mrs. Komal Vyas suggested to add animation on cell structure

### Evidences of success:

*Increased Student Engagement , 80% of students have gone through the PPTS and actively participated in group activities based on the presented material.*

### Challenges faced during implementation:

--None

Link for peer review: <https://forms.gle/9BBLcmKFoXX63icK6>