



Academic Year 2023-2024 Odd Semester

Degree, Semester & Branch: V Semester B.TECH Information Technology

Course Code & Title: JCS1003 Mobile Computing

Name of the Faculty member(s): Dr.D. Parameswari

Innovative Practice Description

- **Unit/ Topic:** Unit II/ GPRS Architecture
- **Course Outcome:** CO2
- **Topic Learning Outcome:** TLO7
- **Activity Chosen:** Minute Paper
- **Justification:**

GPRS Architecture is an important concept in mobile communications. The different layers and components of the GRPS architecture can be easily understood and recalled by conducting this activity. Minute paper is a short writing activity within the classroom in which students generate answers in response to questions asked by the teacher regarding the concept of GRPS architecture taught in the class. Its major advantage is that it provides rapid feedback on whether the instructor's main idea and what the students perceived as the main idea are the same.

- **Time Allotted for the Activity:** 5 Minutes
- **Details of the Implementation:**

At the end of the class, students were asked to write about the GRPS architecture functionalities and components discussed in the class. The students expressed the understood content and the content which were not clear in that particular topic. The students also write about the specific topic which is needed to be discussed or clarified in the further classes. This activity shows whether the students can able to understand the specific topic and their involvement the particular class. The activity of minute paper conducted was shown in Figure 1.

• CO-PO/PSO mapping:

CO	PO1	PO2	PO3	PO4	PO10	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	1	1	1

(1- Low 2 - Moderate 3 - High)

• PO/PSO mapped:

Innovative practice	PO1	PO2	PO3	PO4
	3	2	2	2
Justification for correlation	Able to apply theory and principles of Information Technology to understand the basis of mobile computing.	Able to use Information Technology principles to study the different assignment schemes	Identify the different assignment schemes to solve complex engineering problem	Choose appropriate scheme to conduct investigations on complex problems on communication system.
	PO10	PSO1	PSO2	PSO3
	2	1	1	1
	Able to explain the various schemes and demonstrate its application in mobile communications	Able to practice mobile technologies to solve complex problems.	Able to use mobile technologies and assignment schemes to develop reliable IT solutions	Able to determine appropriate schemes to solve real world problems in Industry.

• Images/Screenshot of the practice:

Multiplication:

Multiplication is a faster method for calculating products. It is used in various fields like science and engineering.

Advantages of Multiplication:

- It is a faster method for calculating products.
- It is used in various fields like science and engineering.

Diagram:

The diagram shows a multiplication problem: $123456789 \times 123456789$. Arrows indicate the steps of the process, showing how the digits are multiplied and then summed to get the final product.

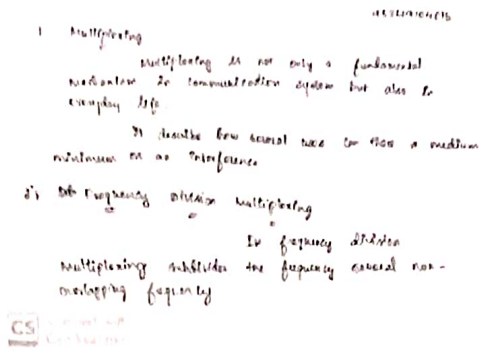


Figure 1: Minute Paper Activity

• **Reflective Critique:**

❖ **Feedback of practice from students and other stakeholders:**

- The students felt that they can able to understand the different functionalities of GRPS clearly after conducting this activity.
- Also they can able to recall the key terms in each layer of GRPS.

❖ **Benefit of the practice:**

- Students were actively participated in this activity.
- From this activity, the muddiest parts in the concept were identified and the key points of different layers of GRPS were explained again in the next class for well understanding.
- Able to attend this topic in Internal Assessment Test.

❖ **Challenges faced in implementation:**

- Some students are hesitated and lack to share the concepts that they learnt in the class.
- Make the students to know the impact and importance of sharing their views and understanding related to the topic and made them involve in the activity.

References:

- ❖ <https://www.rochester.edu/college/cetl/faculty/one-minute-paper.html>
- ❖ <https://www.unl.edu/gradstudies/current/teaching/minute>
- ❖ <https://oncourseworkshop.com/self-awareness/one-minute-paper/>

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