Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College

Manchar, Tal. Ambegaon, Dist Pune

DEPARTMENT OF ELECTRONIC SCIENCE

Think-Pair-Share Activity

2023-24

Subject: Signals and Systems	**Semester: V**
AcademicYear:2023-24	**Class: T.Y.B.Sc**
Topic: Signals and System	
Teacher Incharge: Ms A M Dange	

1. Think Pair Share Activity (TPS)

Think-Pair-Share (TPS) is a collaborative learning strategy where students work together to solve problem so answer a question about assigned reading. This technique requires students to think individually about the topic or answer a question; and share ideas with colleague students. Discussing responses with peers serves to maximize participation, direct attention, and engage students in reading comprehension. The three phases in TPS are structured as Think-the instructor poses a question, to which students individually write their answers, Pair-students work on a well-defined task with their neighbor(s), and Share-students engage in a class-wide discussion, sharing their answers and reasoning, and debating alternate solutions.

Goals of the Think Pair Share:

- To activate students prior knowledge
- To Enhance oral communication skills
- To make students active learners

Outcomes:

- Observe the use of the concept of convolution in the time and frequency domain for simple mathematical computations of systems.
- Analyze the characteristics of linear systems such as distortion less transmission system

Subject: Signals and Systems

Think phase: The instructor posed a question, such as "Illustrate the concept of convolution in time and frequency domain". The students worked individually on the task, for about ten minutes.

Pair phase: The instructor gave at ask related to the Think phase, such as checking your neighbor's solution, or working with your neighbor to write a detailed answer for the given question. The students worked with one of their neighbors to complete the task, in five to ten minutes. The instructor walked along the aisles, encouraging discussion and answering queries.

Share phase. The instructor facilitated a class-wide discussion related to the tasks in the Think and Pair phases. Student's responses in the Think and Pair phases formed an important part of the discussion in this phase.

Assessment:

The students took a survey about their class participation and confidence at the beginning and at the end of the activity. The consolidated survey report is as shown in Table.

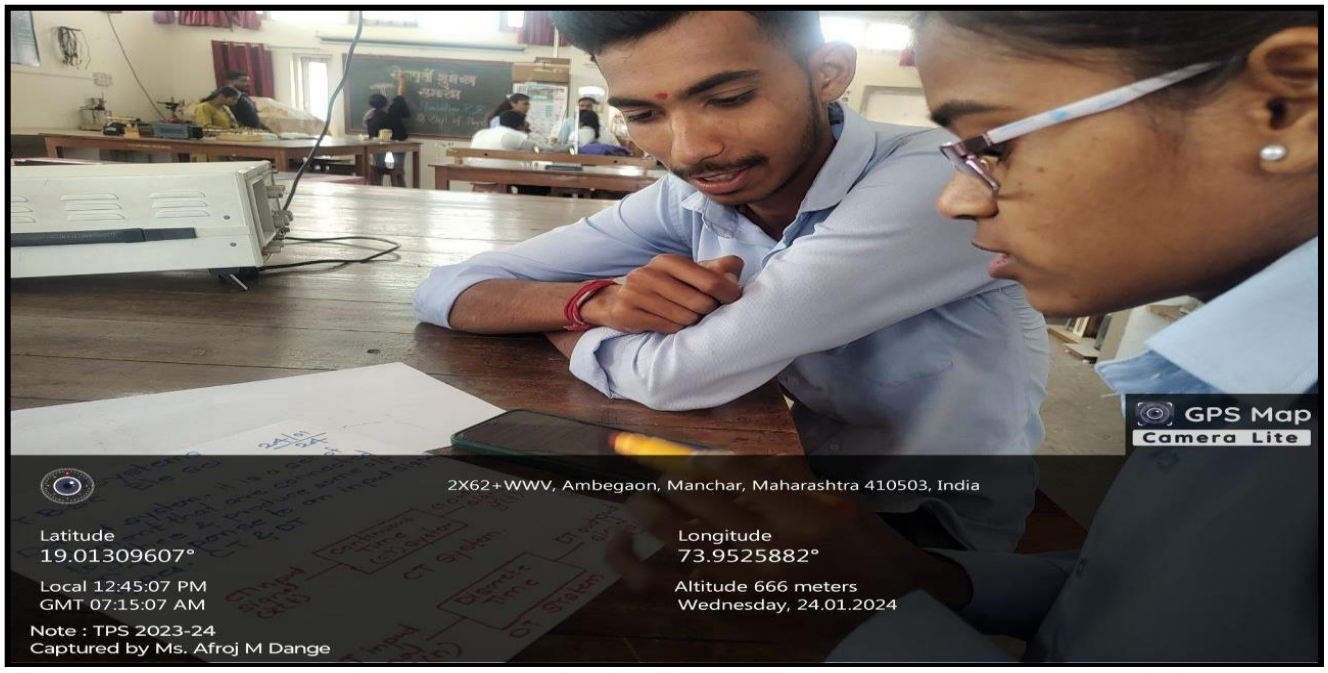
Annasaheb Awate Art's, Commerce & Hutatma Babu Genu Science College Manchar

Head
Dept. of Electronice Science
A. A. College, Manchar

DEPARTMENT OF ELECTRONIC SCIENCE

Think- Pair- Share Activity 2023-24

Conducting a TPS activity for the students



Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar

Head
Dept. of Electronics Science
A. A. College, Manchar

DEPARTMENT OF ELECTRONIC SCIENCE

Think-Pair-Share Activity 2023-24

Student Attendance

Sr. No	Roll No	Student Name	Sign
1	4246	ABHANG PRASAD DILIP	
2	4247	ABHANG SAYALI SACHIN	
3	4248	BHALERAO VEDANT PRAKASH	
4	4249	DHARADE VAISHALI SANTOSH	
5	4250	DHENGALE KARISHMA LALCHAND	
6	4251	GADHAVE ATHARV SOMNATH	
7	4252	GAWARI KISHORI TULASHIRAM	
8	4253	GHULE SOMESH NILESH	
9	4254	HULE ASHWINI ANIL	
10	4255	LOHATE DIPALI SANTOSH	
11	4256	NIGHOT GAURI SAMBHAJI	
12	4257	THORAT PRANAV BALU	
13	4258	THORAT SHRADDHA BHAGUJI	

Annasaheb Awate Art's, Commerce & Hutatma Babu Genu Science College Manchar

Head
Dept. of Electronice Science
A. A. College, Manchar

Significance of results & reflective critique:

1. The number if students who enjoyed the class are increased.
2. Most of the students agreed that they are confident in contributing for the classroom discussion.
3. Students learning ability increased.
4. Students shown interest to participate in classroom discussion often.
5. Students felt comfortable during classroom activities.

Activity Outcomes

Activity Outcomes
• Observe the use of concept of convolution in time and frequency domain for simple mathematical computations of systems.
• Analyze the characteristics of linear systems such as distortion less transmission system

Post Implications:

- All the students paid more attention while explaining this activity, due to sharing and pairing all students actively participated.
- The slow learners are also actively participated on par with bright students
- Traditional class room was perfectly converted into student centric classroom.
- With the predefined evaluation process, all students actively participated in each and every stage of the activity.

Head
Dept. of Electronice Science
A. A. College, Manchar

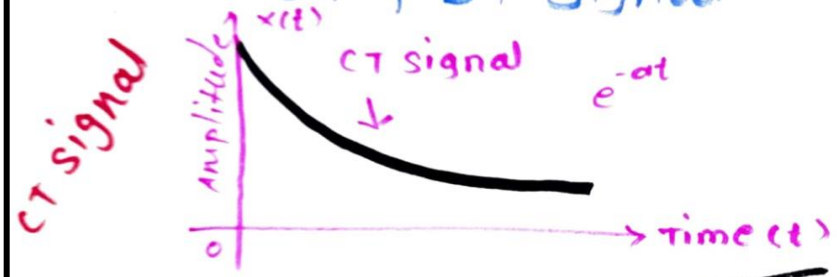
Signals

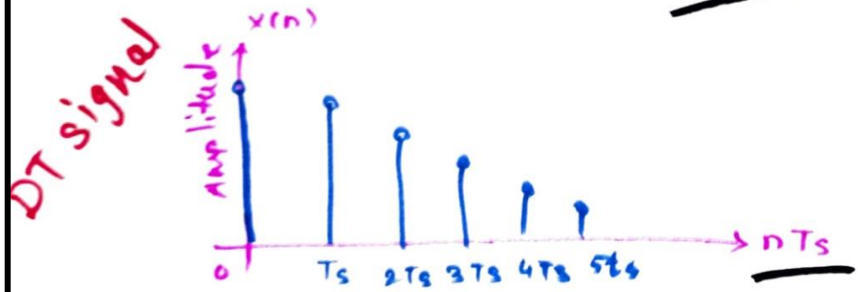
24/01/24

T.Y. B.Sc Ele Sci.

Def^n of signal : A function of one or more indepedent variable which contain information is called signal.

Types : CT & DT signal





- A CT signal is def^n continuously with respect to time.
- A DT signal is def^n only at specific or regulator time instants.

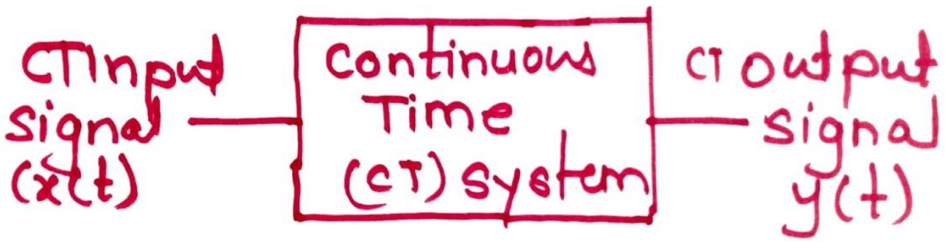
Name : Dhengale Kanishma Ghule Somesh

Systems

T.Y.B.Sc Ele Sci 24/01/24

Defⁿ of system - it is a set of element that are connected together & produce some o/p in response to an input signal.

Types · CT & DT



CT System.

DT System

Gawari Kishori Abhang Prasad.