JSPM's

Rajarshi Shahu College of Engineering, Pune Department of Electronics & Telecommunication Engineering

INNOVATIONS IN TEACHING AND LEARNING

Subject: Signals & Systems Class: S.Y. BTech E&TC

Topic: Special Probability Distributions

NAME OF THE ACTIVITY: Brown Bag Activity

- I. Concept: A bag is filled with papers having different topics of the subject written on them. Students are asked to pick a paper from bunch and they are given an opportunity to explain it.
- II. Objective(Goal): Self learning, Exchange of knowledge
- III. Appropriateness (Relevance of Selected Method): This method forces students to get in depth knowledge of all the allotted topics.

IV. Effective Presentation (Implementation Details):

A. A bag is filled with paper chits mentioning different topics on 'Special Probability Distributions 'from Unit-6: Probability and Random Signals of the subject Signals & Systems. The topics are as follows,

	Topic	Pg No.	of reference	Material
1.	Bernoulll Distribution		(pg.55)	
2.	Binomial Distribution:		(pg.56)	
3.	Geometric Distribution		(pg.57)	
4.	Negative Binomial Distribu	tion:	(pg.58)	
5.	Poisson Distribution		(pg.59)	
6.	Discrete Uniform Distributi	on	(pg.60)	
7.	Continuous Uniform Distril	oution	(pg.61)	
8.	Exponential Distribution		(pg.61)	
9.	Gamma Distribution		(pg.62)	
10.	Normal (or Gaussian) Distr	ibution	(pg.63)	

- B. The detailed description of topics(Formulae of CDF, mean, variance as well as CDF graph) are made available to them at the time of activity.
- C. The required study material is provided to them in advance and asked to learn all the 10 Special Probability Distributions.
- D. On the day of activity, out of whole strength of class, roll numbers are selected by random number generation. The randomly selected student will pick up one chit and gives the explanation on the picked up topic.

	E7 •	A =R	ANDBETWEEN(1,76)	
1	В	C	D	E	F
1					
2					
3					
4					
5				Roll No.	
6					
7				68	
8					
9					

Fig.1 Random Roll Number generation

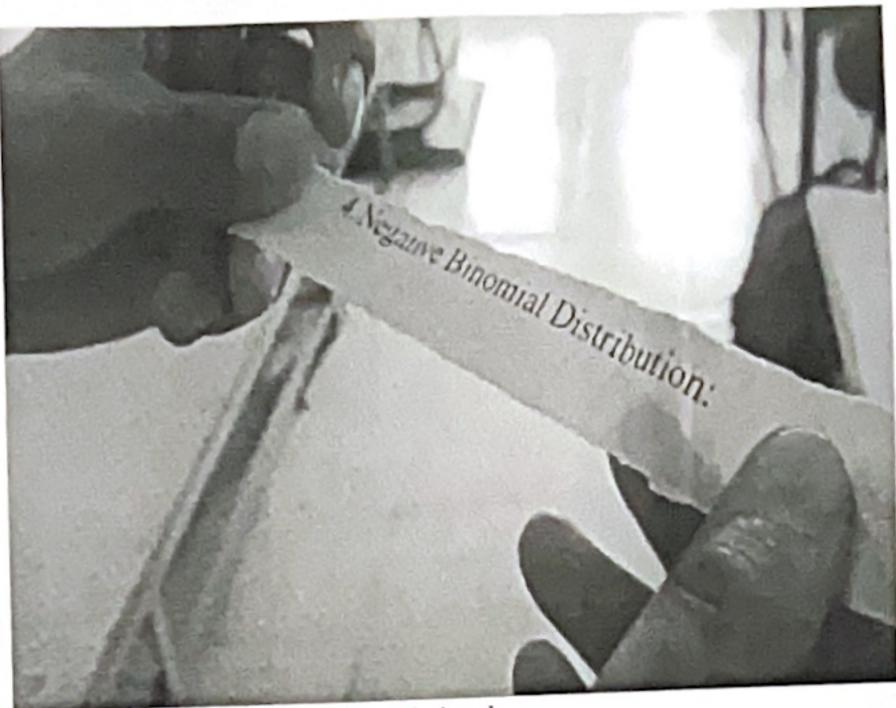


Fig.2 Topic Picked-up

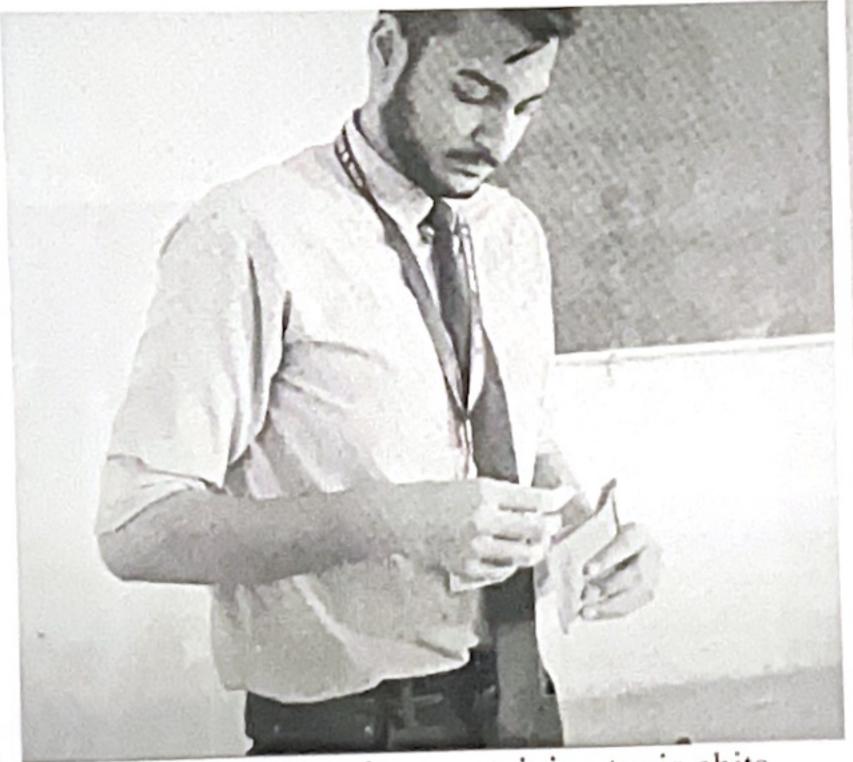


Fig.3 Brown bag containing topic chits

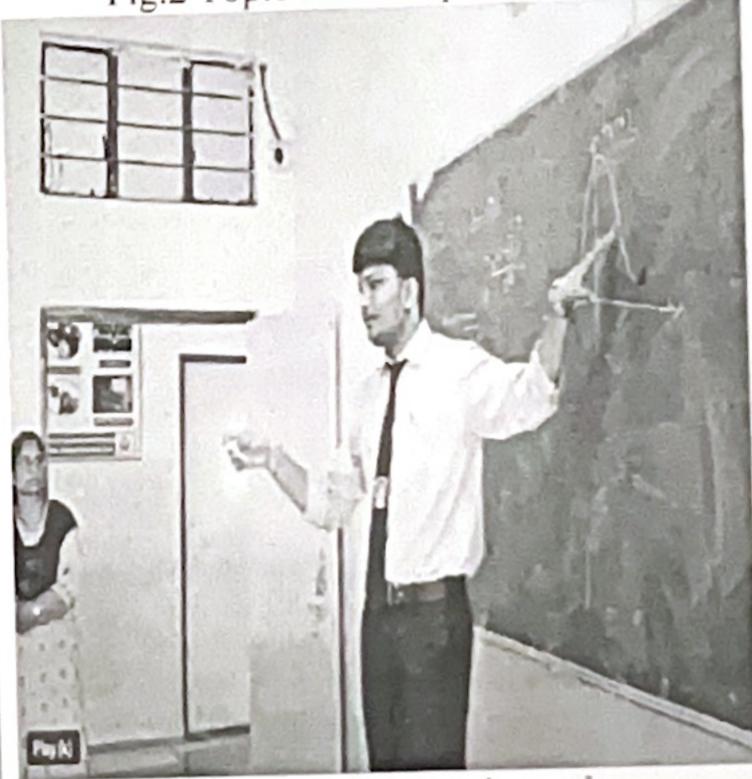


Fig.4 Student explaining the topic

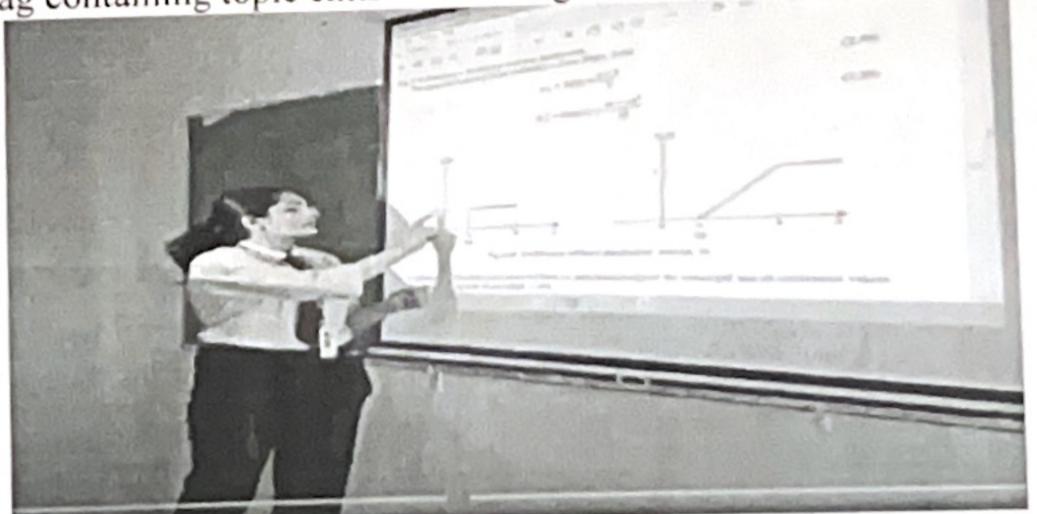


Fig.5 Student explaining the topic

*Activity is available on YouTube Link:- https://youtu.be/34Wjd9Z0ly8

Results (Impact):

- A. This activity inculcates the habit of self learning among students.
- B. Encouraged students to participate in activity.
- C. In depth understanding of a topic.
- D. Stage daring, presentation skills enhancement.

Reproducibility and Reusability by Other Scholars for Further Development VI.

Sr.No	Innovation Used by	Details of User	Purpose of Reproducibility and Reusability	- 8
IJ	pm. S.P. Vibhute	Coordinator	Used in other class of SY E&TC	-

PEER REVIEW AND CRITIQUE VII.

Category: Internal/External/Interdepartmental

3:Highly) 2: Moderate Score: (1:Least

Question 1.Is this Innovative Teaching and Learning Methodology useful during content delivery?

Question 2. Did this innovation increase student motivation or participation?

Question 3. Will it show improvement in student learning?

Question 4. Suggestions for improvement in future iterations.

Category	Name of Peer	Organiza tion	Q.1	Q.2		Q. 4 Suggestion/Critique
Internal	whhite	RSCOE	3	3	3	com be organized on regular basis to imperent of stranged pont provide
external	M.s. Veena Kulkarni	PCCOE	3	2	3	reference material whi
						enplaination

Course Co-ordinator

Dr.Rane Charushila Vijay

Module Co-ordinator Dr.Rane Charushila Vijay

HOD E&TO Dr.S.C.Wagaj: