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

Digital Signal Processing, Electronic Devices & Circuits

NAME OF THE ACTIVITY: YouTube Videos

- I. Concept: The sessions on the topics from the course are recorded and uploaded on a free video-sharing platform YouTube.
- II. Objective (Goal): Make available the free learning resources to students.

III. Appropriateness (Relevance of Selected Method):

By the concept of YouTube Videos, student will be able to learn the topics which he/she might have missed during the regular course delivery. For the topic revision purpose also, these videos are useful.

IV. Effective Presentation (Implementation Details):

Online mode teaching has supported a lot in engineering courses. Faculty members have created videos of their respective fields explaining the concepts of theory and practical. These videos are made available to students on YouTube.





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Sampling Theorem Practical using MA.

This Video explains how to perform experiment on Sampling theorem using...

Public

None

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Sr. No.	Name of the Faculty Member	Innovations by Faculty in Teaching and Learning	URL/Links		
		Video lecture explaining experiment titled 'Write a program to verify the sampling theorem and aliasing effects with various sampling frequencies'.	https://youtu.be/GhfZbEJh9g8		
		Video lecture explaining experiment titled 'Write a program to study and verify DFT properties' (Minimum two properties).	https://youtu.be/_l4JLVY7d 4s		
		Video lecture explaining experiment titled 'Write a program to find 4 points circular convolution and compare the result with 8 points circular convolution to study aliasing effect in the time domain'.	https://youtu.be/FMxKN4D Ofn4		
6	Dr.Rane Charushila V.	Video lecture explaining experiment titled 'Design and implement two-stage sampling rate converter'.	https://youtu.be/Rb3nJHxIT Xk		
		Video lecture on 'Getting started with Matlab'	https://youtu.be/c- EJn3whdvc		
	Ast e	Video lecture explaining 'Properties of Convolution'	https://youtu.be/9ZZ5kyRg HGA		
		Innovations in Teaching and Learning through Brown bag approach_Special Probability Distributions	https://youtu.be/34Wjd9Z0Iy8		
		Innovations in Teaching and Learning_Tech Climb (Technical Snake and Ladder)	https://youtube.com/shorts/ 76ucFiHWvBg?feature=share		

V. Results (Impact):

- A. Access to free lectures, and explanations of complex topics.
- B. Helps with exam preparation and skill development.
- C. Students can learn at their own pace, pause, rewind, or rewatch content.
- D. Useful for revision and clarification of doubts outside classroom hours.

VI. Reproducibility and Reusability by Other Scholars for Further Development

Sr.No	Innovation Used by	Details of User	Purpose of Reproducibility and Reusability
1.	SY,TY,Final year students	Students of RSCOE,E&TC	'Getting started with Matlab' video used for solving Matlab Tutorials, appearing quiz on Matlab, starting with matlab as a learner, to work on DSP practical, KPIT placement drive preparation.
2	Third year students and faculty coordinating DSP practicals	Students of RSCOE,E&TC Faculty: Mrs.S.P.Pattanaik	Four videos explaining DSP practical are referred for understanding, examination preparation and revision.

VII. PEER REVIEW AND CRITIQUE

Category: Internal/External/Interdepartmental
Score: (1:Least 2: Moderate 3:Highly)

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.3	Q. 4 Suggestion/Critique
Internal	Bayson payson	RSCOE	3	2	2	Add more Nideos . B
Ex tomey	Dr. Rashmi Patil	PCCOE	3	2	3	Add videos on more of
External	Dr. Manisher	DYPCOE	2	3	2	Very well to dear the
	J					

Course Co-ordinator

Dr.Rane Charushila Vijay

Module Co-ordinator

Dr.Rane Charushila Vijay

HOD E&TC

Dr.S.C.Wagaj