BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: What's my audibility?

Faculty Name: Dr. J. Naga Vishnu Vardhan
Class / Semester: IV ECE (A) / I Sem
Academic Year: 2017-18
Subject Name: Cellular and Mobile Communications
Topic: Calculate MOS (Mean Opinion Score) in the Campus

Brief Write-up (Not exceeding 200 Words)

Mean Opinion Score is defined as the provides a numerical measure of the quality of human speech at the destination end of the circuit. The scheme uses subjective tests (opinionated scores) that are mathematically averaged to obtain a quantitative indicator of the system performance.

To Experience the students about MOS, they are asked to form a group of 4 to 5 and every group is assigned a particular cellular network like Idea, Vodafone, BSNL, Airtel etc and asked to reach every faculty and get Score of 1 to 5 about the network used by them in the campus in their sitting place. They are finally asked to tabulate the score given by faculty for a particular network and asked to take average to find MOS. If Score is in between 4 to 5 It is Excellent, 3 to 4 it is Very Good, 2 to 3 – Average Below 2 – Poor.

Objective:
To make the student understand the concept of Mean Opinion Score by which the signal strength of a particular network can be analyzed

No. of Teams: 5

Preparation / Prerequisites:
Should know the Concept of Mean Opinion Score and its importance in Cellular Communications

S. No	Faculty	Network Used	Score	Block
1	1	Idea	5	Opal
2	2	Idea	4	Opal
3	3	Idea	5	Pearl
4	4	Idea	4	Pearl
5	5	Idea	3	Diamond
6	6	Idea	5	Opal
7	7	Idea	4	Pearl
8	8	Idea	4	Pearl
9	9	Idea	3	Diamond
10	10	Idea	5	Pearl
Mean Opinion Score			4.2	

If Score is in between 4 to 5 It is Excellent, 3 to 4 it is Very Good, 2 to 3 – Average Below 2 – Poor.
Hence as MOS for Idea Network in the BVRITH Campus is 4.2, it is rated as Excellent.

For any queries, please contact: vishnu.j @bvrithyderabad.edu.in

BVRIT HYDERABAD College of Engineering for Women
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Name of the Activity: Crossword Puzzle

Faculty Name: Mr. R.Priyakanth
Class / Semester: II - I
Academic Year : 2017-18
Subject Name: Signals and Stochastic Processes
Topic: Laplace & Z- Transforms, Random Processes – Temporal & Spectral Characteristics

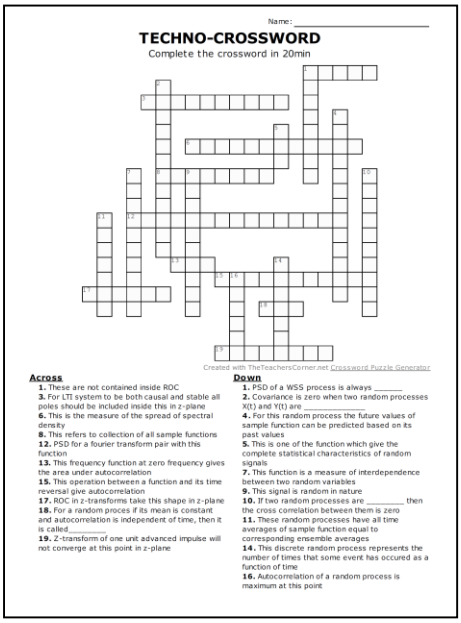
Brief Write-up (Not exceeding 200 Words)

This is a Crossword puzzle based activity wherein students in teams will participate. Team size is 2. This competition consists of an empty crossword and clues for horizontal and vertical. Students should answer the crossword based on the clues given. This is a time based activity cum competition and the duration is 30 min. Students whoever completes this crossword correctly with more points in less time will be the winners.

Objective:

To use crossword puzzle as a teaching tool in Signals and Stochastic Processes and evaluate students' perception about the same.

Photographs
Crossword Puzzle and Key


Name: _____

TECHNO-CROSSWORD

Complete the crossword in 20min

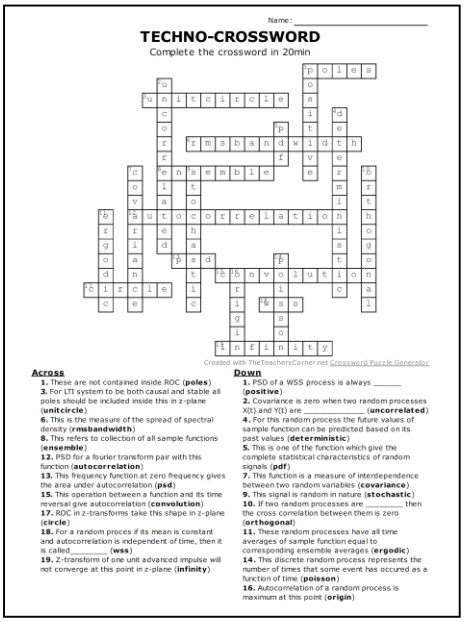
Created with TheTeachersCorner.net Crossword Puzzle Generator

Across

1. These are not contained inside ROC
3. For LTI system to be both causal and stable all poles should be included inside this in z-plane
6. This is the measure of the spread of spectral density
8. This refers to collection of all sample functions
12. PSD for a fourier transform pair with this function
13. This frequency function at zero frequency gives the area under autocorrelation
15. This operation between a function and its time reversal give autocorrelation
17. ROC in z-transforms take this shape in z-plane
18. For a random proces if its mean is constant and autocorrelation is independent of time, then it is called_____
19. Z-transform of one unit advanced impulse will not converge at this point in z-plane

Down

1. PSD of a WSS process is always _____
2. Covariance is zero when two random processes X(t) and Y(t) are _____
4. For this random process the future values of sample function can be predicted based on its past values
5. This is one of the function which give the complete statistical characteristics of random signals
7. This function is a measure of interdependence between two random variables
9. This signal is random in nature
10. If two random processes are _____ then the cross correlation between them is zero
11. These random processes have all time averages of sample function equal to corresponding ensemble averages
14. This discrete random process represents the number of times that some event has occured as a function of time
16. Autocorrelation of a random process is maximum at this point


Name: _____

TECHNO-CROSSWORD

Complete the crossword in 20min

Created with TheTeachersCorner.net Crossword Puzzle Generator

Across

1. These are not contained inside ROC (**poles**)
3. For LTI system to be both causal and stable all poles should be included inside this in z-plane (**unitcircle**)
6. This is the measure of the spread of spectral density (**rmsbandwidth**)
8. This refers to collection of all sample functions (**ensemble**)
12. PSD for a fourier transform pair with this function (**autocorrelation**)
13. This frequency function at zero frequency gives the area under autocorrelation (**psd**)
15. This operation between a function and its time reversal give autocorrelation (**convolution**)
17. ROC in z-transforms take this shape in z-plane (**circle**)
18. For a random proces if its mean is constant and autocorrelation is independent of time, then it is called_____ (**wss**)
19. Z-transform of one unit advanced impulse will not converge at this point in z-plane (**infinity**)

Down

1. PSD of a WSS process is always _____ (**positive**)
2. Covariance is zero when two random processes X(t) and Y(t) are _____ (**uncorrelated**)
4. For this random process the future values of sample function can be predicted based on its past values (**deterministic**)
5. This is one of the function which give the complete statistical characteristics of random signals (**pdf**)
7. This function is a measure of interdependence between two random variables (**covariance**)
9. This signal is random in nature (**stochastic**)
10. If two random processes are _____ then the cross correlation between them is zero (**orthogonal**)
11. These random processes have all time averages of sample function equal to corresponding ensemble averages (**ergodic**)
14. This discrete random process represents the number of times that some event has occured as a function of time (**poisson**)
16. Autocorrelation of a random process is maximum at this point (**origin**)

For any queries, please contact to below mail

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BVRIT HYDERABAD College of Engineering for Women
Department of Electronics and Communication Engineering

Name of the Activity: Student Seminars

Faculty Name: G Siva Sankar Varma
Class / Semester: II ECE (A) / I Sem
Academic Year: 2017-18
Subject Name: Analog Electronics
Topic: Unit- I of AE – Exact Hybrid Analysis of CE Configuration and Exact Hybrid Analysis of CC Configuration

Brief Write-up (Not exceeding 200 Words):

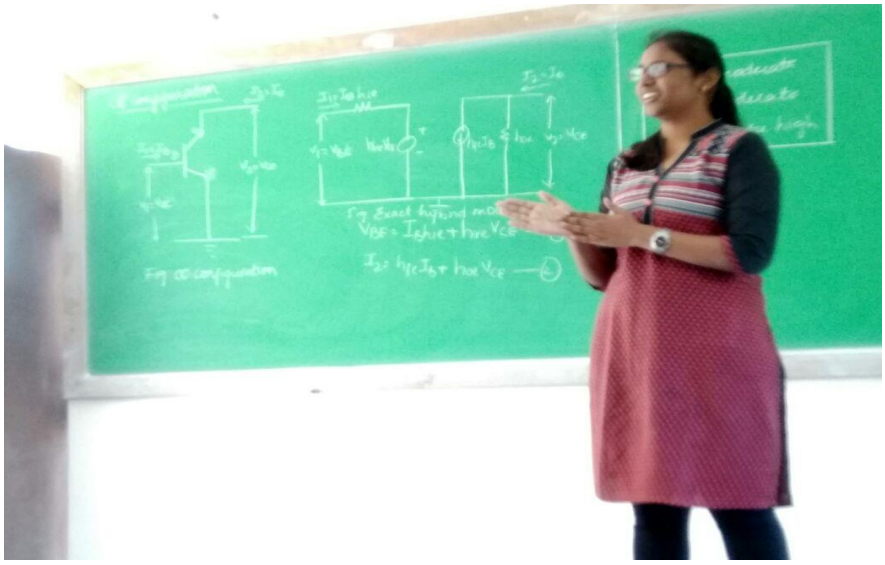
Students presented seminars on topics: Exact Hybrid Analysis of CE Configuration and Exact Hybrid Analysis of CC, of AE Unit 1.

SL NO	TOPIC	DATE	ROLL NO	NAME OF THE STUDENT
1	Exact Hybrid Analysis of CE Configuration	04/09/2017	16WH1A0402	A CHARISHMA
2	Exact Hybrid Analysis of CC Configuration	04/09/2017	16WH1A0429	K S MOUNIKA

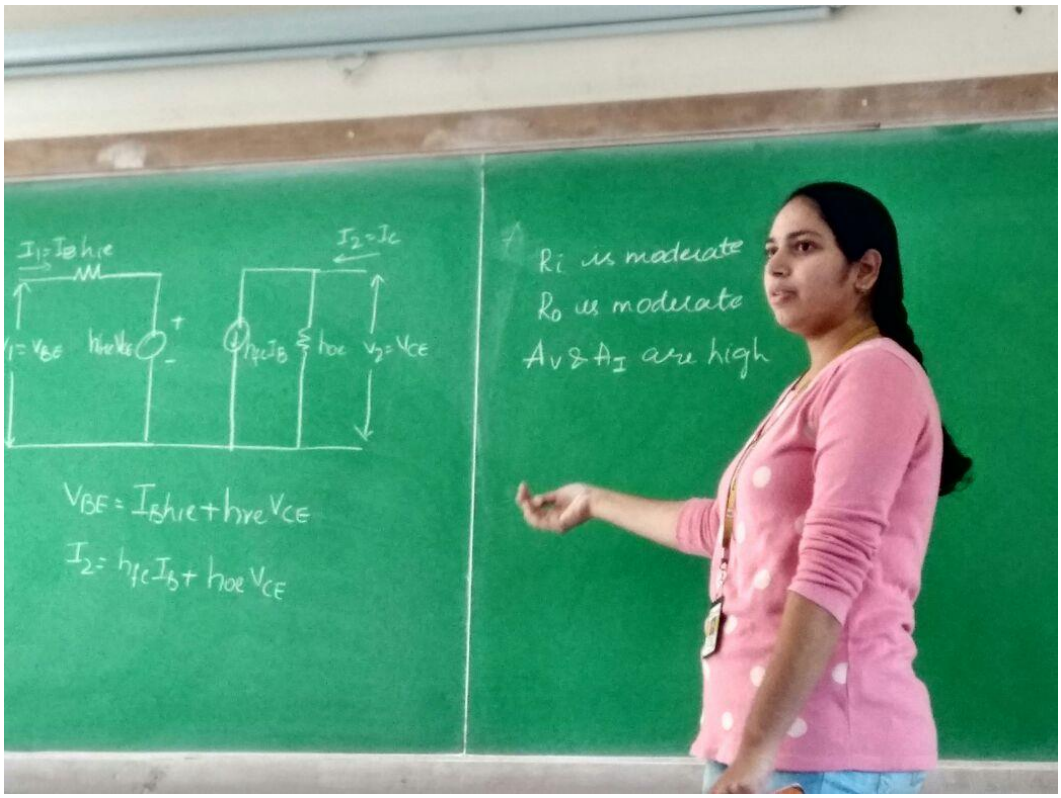
Objective:

To improve communication skills, gaining expert knowledge, motivation and confidence.

Photographs:



A CHARISHMA



K S MOUNIKA

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BVRIT HYDERABAD College of Engineering for Women
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Name of the Activity: Chart Preparation

Faculty Name: G Siva Sankar Varma
Class / Semester: II ECE (A) / I Sem
Academic Year: 2017-18
Subject Name: Analog Electronics
Topic: Unit- I to V of AE

Brief Write-up (Not exceeding 200 Words):

Chart Preparation activity was held regarding Different transistor amplifiers and their applications the students were divided into 14 groups and 58 students participated:

Objective:

Students will learn how to communicate within a team/group and develop innovative thinking on various applications of amplifiers to prepare the chart.

Photographs:


1D

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BVRIT HYDERABAD College of Engineering for Women
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Name of the Activity: Student Seminars

Faculty Name: G Siva Sankar Varma
Class / Semester: III ECE (A) / II Sem
Academic Year: 2017-18
Subject Name: Microprocessors and microcontrollers
Topic: Unit- I of MPMC – Memory Organisation, Flag registers, Minimum mode read and write cycles of 8086

Brief Write-up (Not exceeding 200 Words):

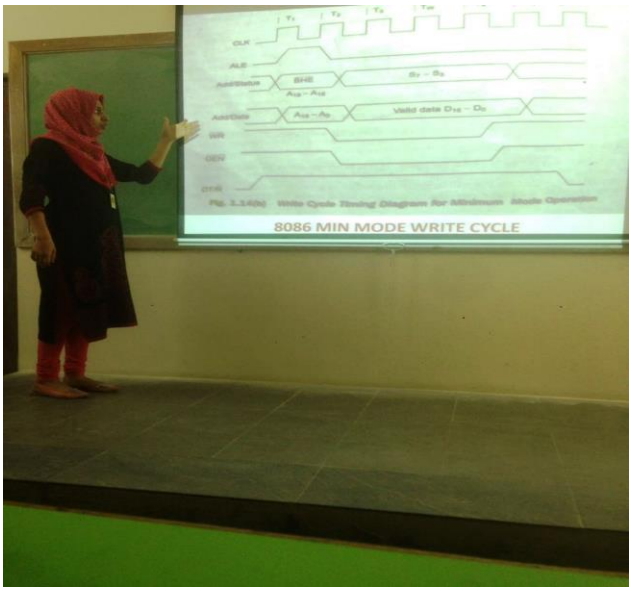
Students presented seminars on Memory Organisation, Flag registers, Minimum mode read and write cycles of 8086 from Unit 1 of MPMC.

SL NO	TOPIC	ROLL NO	NAME OF THE STUDENT
1	Memory Organisation	15WH1A0413	B LAVANYA
2	Flag Registers	15WH1A0440	D TWINKLE
3	Read cycle of Minimum Mode operation	15WH1A0447	V SAHANA SRI
4	Write cycle of Minimum Mode operation	16WH5A0405	AKHTHAR BAWAZEER

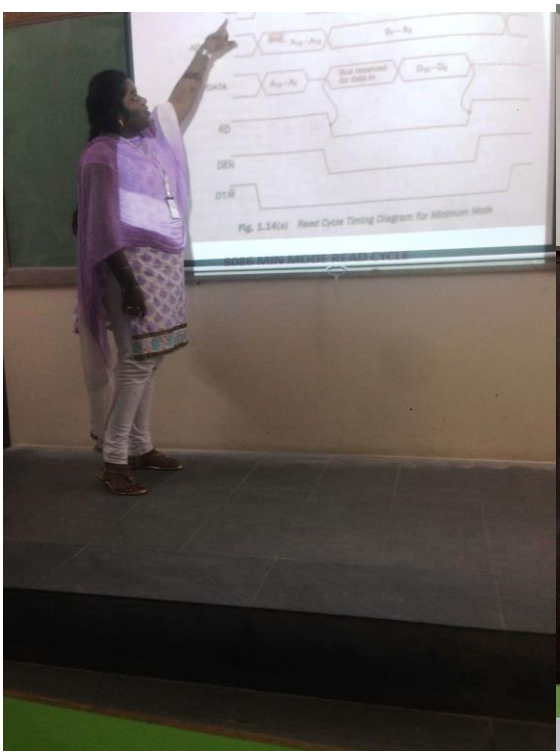
Objective:

To improve communication skills, gaining expert knowledge, motivation and confidence.

Photographs:



AKHTHAR BAWAZEER **B LAVANYA**



V SAHANA SRI **D TWINKLE**

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Name of the Activity: Guess the word

Faculty Name: Ms. R.Shylaja
Class / Semester: II EEE / II SEM
Academic Year: 2017-2018
Subject Name: Switching Theory & Logic Design
Topic: Summary of the Subject

Brief Write-up (Not exceeding 200 Words)
Total class is divided in to 4 teams. One of the students from a team should guess the word related to the subject from the clues given by her team members. Word to be guessed is given by other team members.

Example:
Register
Clues

1. Group of flip flops
2. used to store binary numbers
3. attendance will be noted

Words given by other teams

- Sequential circuit
- Flip-flop
- Counter
- Mealy machine
- FSM
- Sequence detector
- Parity generator
- Kmap
- combinational circuit
- State table
- Gate
- Multiplexer
- Decoder

Objective:
After this activity and associated work students are expected to be able to
1. List the Key topics they learnt
2. Recollect the concepts to give clues

Photographs:

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