# Research Colloquium on 01-02-2019

1. Mr. B. Siva Hari Prasad had given a presentation on " Gain Enhancement of circular polarization Dual slot Backed with FSS ". In the presentation the design of UWB antenna is discussed. The FSS backed to dual slot antenna introduces a gain of 10.9 dB is achieved at 6 G Hz..

2. Mr. B. Y. V.N.R. Swamy had given the presentation on " Orthogonal polarization based MIMO antenna for wireless applications ". In the presentation the use of orthogonal polarization in reducing the mutual coupling between the elements by using Meta-Material based reduced ground plane and elements are orthogonally placed is discussed.
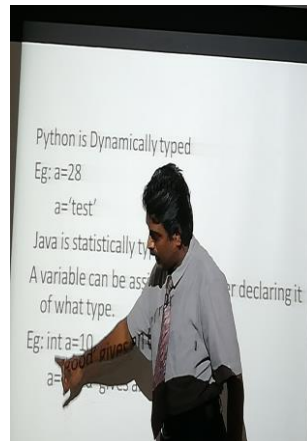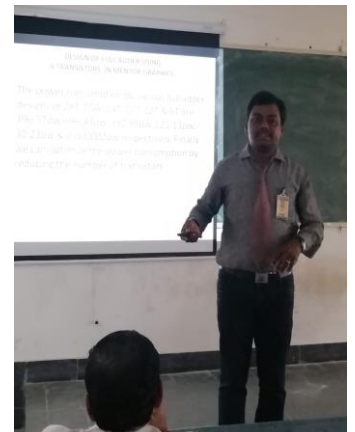


Mr. B. Siva Hari Prasad



Mr. B. Y.V.N.R. Swamy

# Research Colloquium on 08-02-2019

1. Mr. K. Sasi Bushan Rao had given a presentation on " Programming using Python ". In the presentation the difference for python and java programming languages is discussed. Discussed about the basic commands and its usage in python.

2. Mr. G. Venkat Rao had given a presentation on " Design of Adder using minimum number of transistors". In the presentation new design using NMOS and PMOS is discussed. The operation and power consumption aspects are discussed.

3. Mr. Ch. Mallikarjun Rao had given a presentation on " Design of low power High performance JK-Flip Flop". In the presentation the low power and area aspects in designing of JK flipflop is discussed.
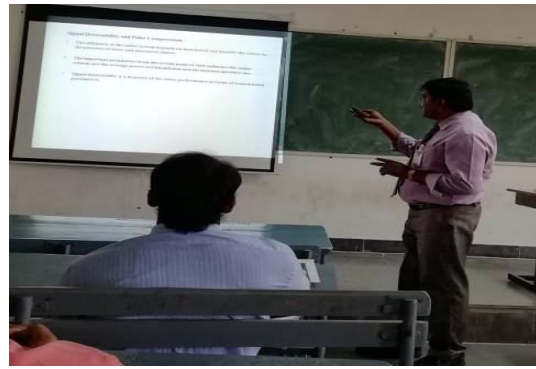


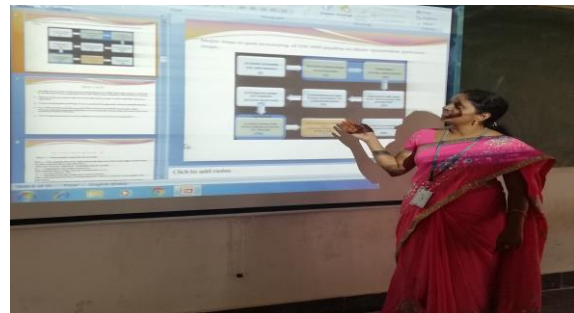Mr. K. Sasi Bushan Rao



Mr. G. Venkat Rao



Mr. Ch. Mallikarjuna Rao

# Research Colloquium on 15-02-2019

1. Mr. M. Siva Sankara Rao had given a presentation on " Signal Detection and Processing techniques for Atmospheric Radars". In the presentation the block diagram for processing Radar signal coming from different layers of atmosphere is discussed. The variation in characteristics of Radar signals based on different layers is highlighted..

2. Smt. B. Rajeswari has given a presentation on "Analytical Spectrum Filtering Methods for Fast Magnetic Resonance imaging". In the presentation discussed about basic steps for post processing of quantification of DSC-MRI perfusion imaging. Also discussed about importance of deconvolution by using different filtering methods like analytical spectrum filtering.
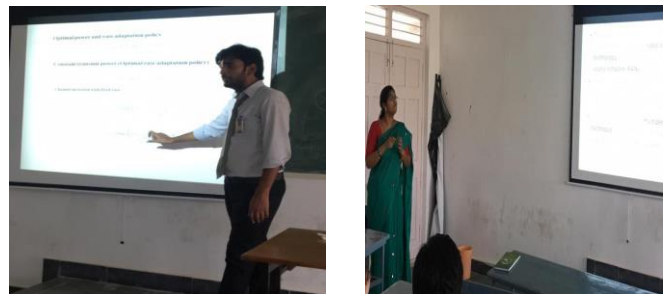


Mr. M. Siva Sankara Rao



Smt. B. Rajeswari

# Research Colloquium on 22-02-2019

1. Mr. Ch. Siva Rama Krishna had given a presentation on " Spectrum Efficiency for Various density functions using Adaptation Policies". In the Presentation discussed about, spectrum efficiency calculation for various density functions to provide optimal rate in power and also for channel capacity calculations. The importance of outage probability in efficiency is discussed.

2. Smt. M. Ramya Harika has given a presentation on " Recent Trends in Communication Engineering ". In the presentation the Non Orthogonal Multiple Access (NOMA) is discussed. NOMA is achieved by varying power for different signals.

3. Smt. M. V. L. Bhavani has given a presentation on Radomes & its Applications. In the presentation discussed about Radome Structures for different applications. Also discussed about Radome induced losses effected with shape, size, and materials used for Radomes.




Mr.Ch. Siva Rama Krishna    Smt. M. Ramya Harika



Smt. M.V.L. Bhavani