

# K L University

## Department of Electronics and Computer Engineering

### WorkShop on

### “Recent Trends in Wireless Networks”

- Dr. G. Rama Murthy

On 24-07-2015 at 10.00 AM, the department of ECM has organised a workshop on “Recent Trends in Wireless Networks” for the students and faculty by Dr. G. Rama Murthy, Professor, IIIT, Hyderabad. He completed his PhD in Computer Engineering in the year 1989, Purdue University, USA with GPA as 5.83/6.0. The workshop is on mostly two topics

#### **(A) MOBILE ADHOC NETWORKS (MANETs):**

Cellular communication networks require infrastructure such as Base stations for their operation. In applications such as disaster relief, battlefields (such as mountains), the infrastructure (even if it exists) could get destroyed. Thus, there is increasing need for wireless networks which can be configured on the fly, called MOBILE ADHOC NETWORKS. In this workshop we introduce MANETs and their application, ROUTING algorithms in such networks and also on MAC protocols in MANETs. SECURITY issues (BLACKHOLE attacks) in MOBILE ADHOC networks.





## **(B) COGNITIVE WIRELESS SENSOR NETWORKS ( WSNs ): CYBER PHYSICAL SYSTEMS**

WSNs are predicted to be one among the TEN technologies that will change the world. In the recent years COGNITIVE RADIO is proposed as the technology that will alleviate the problem of spectrum scarcity. The basics of Cognitive Radio, ENERGY AWARE ROUTING ALGORITHM in WSNs. The problem of DATA FUSION in WSNs, COMBINED ROUTING, FUSION AND LOCALIZATION. The idea of integrating the WSNs with the internet.



Dr. M. Suman - HOD-ECM, Dr. V. Srikanth – HOD-CSE, Dr. T. Anuradha - Alternate Head-ECM, Convenor Dr. G.Vijay Kumar, Co-Convenor Dr. Shakeel Ahamad, faculty of ECM and faculty of CSE, III year and IV year B.Tech [ECM, CSE, ECE] students had attended the workshop.

Dr. M. Suman  
HOD - ECM