ERROR CONTROL CODING FOR COMMUNICATION SYSTEM AND PATENTS RIGHT

The Department of Electronics and Communication conducted a technical talk on 7/08/2014 on the topic "ERROR CONTROL CODING FOR COMMUNICATION SYSTEM and Patents Right". The talk was given by Dr. Prashantha Kumar.H, Asst.Professor, Dept of ECE, NITK suratkal.

Dr. Prashantha Kumar, an accomplished educator completed BE in E&C Engineering from MCE Hassan and completed M.Tech in Digital electronics and communication from MIT Manipal. He obtained his doctoral degree from NITK Suratkal for the dissertation titled "Decoding algorithms for linear Block codes based on tree structure and their applicability to wireless and data storage systems". He worked as a lecturer in the E&C department of MIT Manipal for twelve years. He is currently working as an Assistant professor in E&C Department at NITK Suratkal. Dr. Kumar has guided fifteen UG projects and two PG projects. He has published a book titled "MATLAB/ Simulink for digital signal processing, with Prof. Won Y Yang of Korea. He has also attended various national and international conferences and presented papers. He has also won many awards and recognition for the contribution into the field of Digital Communication.

Fig: Talk on Error Control Coding for Communication Systems and its Patents Rights

Dr. Prashantha kumar began the technical talk by telling that he liked electronics but he loved communication. His interest towards the field of communication was well felt throughout the talk. The session was quite interactive and detailed. He began the talk by speaking about the need for communication engineering. He took real life examples in making the students understand the need for communication. Classification of communication, block diagram of digital communication system, classification of codes, correcting code technique, calculation of bit error rate, process of error correction al formed a part of his talk.

He stressed on the importance of concatenation of block codes, RS codes, Golay codes, floor value of error correcting codes etc. He explained various examples using the MATLAB software. Dr. Prashantha concluded the talk with with insight of Patents right and the way of patenting work done in the field of Error Control Coding. Finally a life story of Golay, a mathematician who lived only for 21 years yet contributed abundantly to the field of algebra and coding.