

Prof. Dinesh Kant Kumar, (Biomedical Engineering), RMIT University, Melbourne, Australia visited JUIT and delivered an Expert Lecture

“Development of Advanced Image and Signal Processing Techniques for Disease Diagnostic Devices: Process and Examples”

on Sept 22, 2017



There has been significant progress in medical technology that provides early stage and detailed diagnosis of many diseases. This has enhanced the longevity and quality of life and we are now living longer and healthier, and significantly more independent. We are also able to perform relevant functional activities for significant period. However, many of these diagnostics can be performed only in major hospitals and require significant infrastructure such as qualified personnel, buildings, and electricity. This greatly limits the benefits of the technologies to be located in large urban centres.

Prof Dinesh has been working towards changing the above paradigm and works for the development of diagnostic devices that are suitable for being used in remote regions by untrained healthcare personnel. Such devices provide automation of recording and analysis of the data, thereby do not require large buildings, and are suitable for the target audience. The success of such diagnostic devices is based on the development of advanced image and signal processing techniques that makes these devices noise tolerant and provide good quality diagnostics without high quality infrastructure.

This seminar, Prof Dinesh has discussed the process and provides examples of such technologies.

Students of B Tech and M tech students attended the lecture and interacted with him enthusiastically. He also interacted with faculty members and Ph.D Research scholar and discussed about the latest research issues.

Coordinators : Dr. Meenakshi Sood, Dr. Shruti Jain



