<p style="text-align:center">**Report on Guest Lecture**
"BIO MEDICAL IMAGING IN ENGINEERING AND ITS FUTURE SCOPE"
Organised by
Department of Electronics and Communication Engineering
19-02-2020</p>

Organized in association with: **MITSAWA**

Submitted by: Dr. M. Shanmugakumar, Senior Assistant Professors and Dr. S. Rajasekaran, Senior Assistant Professors and Head, Dept. of ECE, MITS.

Resource Person: Charan Sai Pala, (Alumni of Dept. of ECE, MITS, Pursuing M. S. from University of Maryland, College Park, USA)

Faculty attended:

Dr. S. Rajasekaran, **HOD ECE**;

Dr. P. Ramanathan, **Vice Principal (Academics);**

Dr. M. Shanmugakumar, **Sr. Asst. Professor Department of ECE;**

Dr. P. Ramesh Reddy, **Alumni Secretary, Assistant Professor, Department of Mathematics.**

Students Attended: ECE: 57 Students

Venue: ECE Seminar Hall (South Block)

Dr. M. Shanmugakumar, Sr. Assistant Professor welcomed all the dignitaries, faculty members and students and expressed his gratitude to the Management and Principal for giving permission and financial support to organize this programme.

Dr. P. Ramanathan, Vice Principal (Academics), emphasized the importance of research scope in Electronics and Communication Engineering. Next, Dr. P. Ramesh Reddy, Alumni Secretary, Asst. Professor, Department of Mathematics emphasized the importance of this invited talk and congratulated the organizers of the 'Guest Lecture' and conveyed his happiness and thanks to the participants.

The guest speaker was introduced to the audience by Dr. S. Rajasekaran, HOD ECE. He briefly explained the motto of the programme.

The Guest Speaker focused the presentation on role of Bio Medical imaging in engineering and its future scope. The main objective of this lecture was to bring awareness among ECE students on the research and implementation of the Bio Medical imaging in broad areas of Electronics and Communication Engineering.

He gave a valuable lecture on the goal in performing segmentation in image analysis this is required by the engineers that an industry is looking for students who have knowledge on Unify Medical Language System. He said that the What makes images a challenging type of data to be processed by computers when compared to non-image clinical data? Why are there many different imaging modalities, and by what major two characteristics do they differ? How are visual and knowledge content in images represented computationally? How are these techniques similar to representation of non-image biomedical data? What sort of applications can be developed to make use of the semantic image content made accessible using the Annotation and Image Markup model?. Further, there was an interaction session in which the students actively participated and asked questions, to which he replied and helped them to select a right path towards their future. Moreover, he briefed various possibilities in the higher studies and specifically explained about the bio medical imaging which are presently used in most of the applications global wide, as a part of a suggestion he advised the students to participate actively in projects and fellowships. Finally, the department of ECE along with some of dignitaries like HOD of ECE dept., vice-principal academics congratulated his and wished his best wishes for his future.

The interaction between the guest speakers and students has continued and students on campus have cleared many doubts during the interaction session.

The session finished by conveying vote of thanks by Dr. M. Shanmugakumar, ECE Dept.