BIODATA - Prof. R. Ethiraj

Prof. Ravindharan Ethiraj , now 74 years, started his teaching career at New Science College in June 1965. In all, he has 50 years of teaching experience covering B.Sc., M.Sc., B. Tech. and M.Tech. At New Science College, he was actively involved in the development of the M.Sc. Applied Electronics Course during which time he pursued his Ph.D. Degree in Piezo Optic Studies in Mixed Cubic Crystals. In 1976, he joined Osmania University, where he guided eleven scholars in their research, leading to Doctorate degrees in diverse areas of 1.Integrated Optics and Studies in Optical Waveguides,

2. Microwave Polarization Shifting Antennas,

3. Remote Sensing,

4. Fourier Optics.

5. Piezo Optics

Prof. Ethiraj has published 25 papers in both National and International Journals. During his tenure at Physics Department, Osmania University, he was the Chairman Board of Studies in Electronics. He was associated with the development of Microwave Physics at University College for Women, Osmania University, Fiber Optics at AV College, [affiliated to Osmania University], Communication Physics and Cisco Networking at Nizam College [An Autonomous College]. He was the Visiting Professor at Bosch and Lomb School of Optometry where he designed the syllabus for Optics relevant to Optometry in addition to teaching Physical Optics . He was also associated with Ali Yavar Jung Institute for Hearing Impaired and was the Chairman, BOS in Hearing Language

and Speech. In 2003, he superannuated from Osmania University and joined Bharath Institute of Engineering and Technology as Professor and Head, Department of Electronics and Communication Engineering where he developed and established all the UG Laboratories of the department.

Currently Prof. Ethiraj is the Director, Research and Development [Sigma] at this College, the Stanley College of Engineering and Technology for Women. Having been associated with teaching Physics and Electronics for thirty eight years and ECE subjects for more than twelve years [post superannuation] he has recognized some of the lacunae in Engineering education, the most important one being the lack of awareness in the students of the relevance of Humanities and Science in their Engineering education. Most of the students, feel that Humanities and Science is a " puddle " to be crossed over. It is the overcoming of this tragic situation that he mainly addresses in the R & D Cell and is now conducting special interactive sessions with those students who have the creative and explorative talents plus the courage to be different from the crowd. In the process, he is developing new experiments in collaboration with the student members of R and D Sigma wherein the principles highlighted in Science Classes and Labs are made the starting points for developing experiments in Engineering.

In addition, recently, Prof. Ethiraj had guided one candidate in his Doctoral program; the candidate had submitted his Thesis for adjudication this month. Currently, he is working on applying Point Dipole Approximation in materials used for Optical Waveguiding and Microwave Transmission to characterize the Propagation Delays in them- one of the parameters that influences the highest rate of information transfer.