



Associate Professor

Qualifications: B.Tech, M.E., Ph.D., MIEEE

Areas of Interest: Design of Digital Filters & QMF, Digital Image Processing, Computer Vision, Guidance & Control in Navigational Systems, Tracking and Guidance, Switched Capacitor Filtering Techniques, Smart/Brilliant/Intelligent weapons like ICBM, & Real Time Adaptive Filtering.

Brief Bio-data:

M. J. Nigam was born in District Etawah of U.P. India in 1953 and resided there till 1971. He received the **B.Tech.** degree in Electronics and Communication Engineering from **Regional Engineering College, Warangal** (AP.), India 1976, the **M.E.** degree in Electronics and Communication Engineering with specialization in Control & Guidance in 1978 and the research work leading to the award of **Ph.D.** degree in Electronics and Computer Engineering in 1992 from University of Roorkee (Now IIT-Roorkee), Roorkee, India.

From 1979 to 1980 & 1980 to 1982, he was a faculty member in the Department of Electronics Engineering, M.M.M. Engg. College, Gorakhpur and Institute of Technology, Banaras Hindu University, India respectively.

In 1982, he joined the faculty of University of Roorkee (Now IIT-Roorkee), Roorkee, India in the Department of Electronics and Computer Engineering and was selected Reader in 1989 and Associate Professor in 1996.

His **main research interests** for the thrust areas of Electronics and Computer Engineering are Guidance & Controls in Navigational Systems including high resolution real time intelligent Kalman State Estimator as well as Regulation, Tracking and Guidance for peace time work and industry also.

High-resolution intelligent vision systems, smart/brilliant/Intelligent weapons like ICBM, & real time adaptive filtering, smoothing and prediction are some of his allied topics of interest in the field of Guidance and Control. In both of these sub-areas, he has engaged his M.Tech. and Ph.D. students for active research work and novel approach to the above fields. A number of research articles in the above areas have also been published/ presented in various journals and Conferences etc.

In addition to teaching the undergraduate and postgraduate students, a number of Ph.D. students have been supervised for their theses. Also a number of B.Tech., M.Phil., M.Tech. students have been guided for their projects & seminars. Research projects funded by the University of Roorkee (Now IIT-Roorkee), Roorkee in the above fields have been successfully completed. He is also actively engaged in various important academic & administrative activities of the department as well as of the Institute.