

Karnatak University, Dharwad



E- Club
Department of Physics & Electronics
&

Dr. M. R. Gorbal Foundation, Bengaluru



: Invited Talk by :

Prof. K. Rajanna

**Former Professor and Chairman
Department of Instrumentation and Applied Physics (IAP)
Indian Institute of Science (IISc), Bengaluru**

: Topic:

“Thin Films Technology for Sensors Development”

Date: 14-02-2025

Time: 11.30 am

VENUE: CHANDRASEKHAR HALL

All are cordially invited

Dr. A. S. Bennal

Chairman E-Club
Department of Physics & Electronics
K.U. Dharwad

Prof. M. K. Rabinal

Chairman
Department of Physics & Electronics
K.U. Dharwad

Student Representatives

Veda, Venugopal, Basavaraj, Rakshita, Akash, Nayana, Ayesha, Rashmi, Kiran, Bhoomika,
Sunita, Bheemashankar, Vinod and Sneha



ε-Club, Department of Physics & Electronics & Dr. M R Gorbal Foundation, Bengaluru



Invites you to the Fourth Dr. M R Gorbal Foundation Guest Lecture

Speaker	Prof. K. Rajanna Former Professor and Chairman Department of Instrumentation and Applied Physics (IAP) Indian Institute of Science (IISc), Bangalore,	
Date and venue	14 th February 2025, 11:30am S. Chandrasekhar Hall, Department of Physics	
Title	Thin Films Technology for Sensors Development	
Abstract	This talk will highlight the research activity on thin film based sensors. To start with, a brief outline of the importance of thin film technology for sensor development will be introduced. Further, a few basic thin film deposition techniques will be discussed. Work carried out in the group here at IISc on tactile sensors, low-cost acoustic sensors, impact sensors and the MEMS based sensors as well as their application will be presented. This includes the information about the different steps followed for the development of sensors and their performance study.	
Speaker Bio	Prof. K. Rajanna (Konandur Rajanna) served as Chairman of IAP for 8 years (2008 – 2016). Recognising his overall notable contributions, after his superannuation, he was designated as Honorary Professor to continue his Research and Academic activities. His areas of interest include the broad area of sensors & microsensors (including MEMS and NEMS) and their applications. He received his M.Sc(Engg.) and Ph.D degrees from IISc. The R & D work carried out by him resulted in the realization of several useful sensor devices & measurement systems. He has more than 120 papers (published in leading international & national journals, conference proceedings, and an invited article in the Encyclopedia) as well as 6 patents. He is a Referee/reviewer for several National and International Journals in the area of sensors. He served as a member of the Editorial Review committee of the Journal IEEE Transactions on Instrumentation and Measurement (USA). Presently, he is a member of the Editorial Board for two International Journals in the area of Sensors. Prof .Rajanna was a visiting fellow of INSA (Indian National Science Academy)--JSPS (Japan Society for the Promotion of Science} Programme twice. Also, he was a visiting professor at the Tohoku University, Japan. He served as a member of TPC for IEEE International conferences on Sensors and chaired sessions. Also served as a member of Steering committee and the TPC for APCOT (Asia-Pacific Conference on Transducers and Micro-Nano Technology). Prof. Rajanna also served as a member of the TPC for the 11th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS 2016) held during 17-20 April, 2016 in Japan. Prof. Rajanna was a member of the BOM (Board of Management) of DIAT (Defence Institute of Advances Technology, Deemed University), Pune. He is also a member of the Institutional Body of NIMHANS (National Institute of Mental Health and Neuro Sciences), Bangalore (since Nov 2018). Presently is also on the Expert Advisory Group (EAG)/PAC of DST. Prof. Rajanna was elected as a FELLOW of the Instrument Society of India during 2015. He also successfully completed several projects sponsored by DST, DBT, ISRO, DRDO, BRNS (DAE), DOE and MHRD.	