



Prof. Ranjan Bose
Member (Part Time)

Ranjan Bose received his B.Tech. degree in electrical engineering from the Indian Institute of Technology (IIT), Kanpur, India in 1992 and the M.S. and Ph.D. degrees in electrical engineering from the University of Pennsylvania, Philadelphia, USA in 1993 and 1995, respectively. He worked at Alliance Semiconductor Inc., San Jose, CA, as a Senior Design Engineer from 1996 to 1997. Since November 1997 he has been with the Department of Electrical Engineering at Indian Institute of Technology, Delhi, where he was the Microsoft Chair Professor and headed the Wireless Research Lab. His research interests lie in the areas of secure communications, coding theory, ultra-wideband (UWB) communications, broadband wireless access, 5G/6G and wireless security. He served as Director of IIIT-Delhi from August 2018 to December 2025.

Prof. Bose has published over 70+ refereed journal papers, 100+ conference papers, and holds 13 patents (including 11 granted Indian patents, 2 granted US patents). He has supervised 18 doctoral students and managed sponsored projects valued at over Rs. 370 crore. He has been listed in the top 2% of scientists worldwide for three consecutive years according to the Stanford University database. His international research collaborations span five universities in the US, Germany, Japan, Norway, and Estonia. Additionally, he was the Principal Investigator for the Technology Innovation Hub at IIIT-D, which has a financial outlay of Rs. 100 crore and focused on deep-tech startups.

He is the author of the widely recognized book "Information Theory, Coding and Cryptography" (3rd Ed.), which has over 260 citations, an international edition, and translations into Chinese and Korean. Prof. Bose also co-founded Virtualwire Technologies, a faculty-student startup at IIT Delhi.

Prof. Bose is the national coordinator for the Ministry of Education's Mission Project on Virtual Labs, which enables students across India to perform laboratory experiments remotely. With 230+ Virtual Labs, the project has reached over 21 million usages and established more than 2,000 nodal centers across the nation. His contributions extend to the National Program on Technology Enhanced Learning (NPTEL) and the National Pedagogy Project, with his NPTEL course on Wireless Communications garnering over 2,000,000 cumulative views. He has served on the editorial boards of IEEE Access and Computers & Security (Elsevier), and was the Editor-in-Chief of the IETE Journal of Education.

Prof. Bose holds several significant positions, including on the Board of Governors of IIIT Guwahati, Governing Council of SETS, Governing Council of CRIS, Chairman of the Search Committee for Director DIA-CoE at IIT Kharagpur, Member (PT) TRAI, and Member of the Search cum Selection Committee for Director of IIIT Una. He has served on numerous reputed committees such as the Security Advisory Board of GSTN, the IDEA steering committee, the Technology Advisory Group of Empowered Technology Group of the Office of the PSA, the CII National Committee on R&D & Innovation, and the Delhi Knowledge and Development Fund (DKDF). His expertise has been sought

as a Domain Expert for DRDO, SAG, NATGRID, Delhi Police, and BPR&D, and he has served as a Jury Member for the Dataquest ICT Business Awards in 2023 and 2024. He is also on the Board of Directors of Delhi Research Implementation and Innovation (DRIIV), a Section 8 company supported by the Office of the PSA.

Prof. Bose's accolades include the Dr. Vikram Sarabhai Research Award, the National Systems Gold Medal, the URSI Young Scientist Award, the INAE Young Engineers Award, the AICTE Career Award for Young Teachers, and the BOYSCAST Fellowship. He is a Fellow of the IET (UK) and a Humboldt Fellow (Germany).