



## **Bio-data of Prof.(Wg Cdr) P. Prabhakar (Veteran), President Elect IETE**

Prof. (Wg Cdr) Pradeep Prabhakar is a multi-talented, high-ranking Veteran with a long list of academic and professional achievements, extensive administrative experience, and demonstrated leadership roles in the Air Force, academic institutions, and technical organizations. He has a synergized vision for innovation that aims to promote scientific temperament in society through a blend of modern technological aspirations in R&D of diverse products and processes, as well as practical skill enhancements in Basic and Higher Technical Education Systems.

He earned his B.Tech (Hons.) in Electrical Engineering with Distinction, AMIETE, and M Tech in Electronics & Communication Engineering, as well as a Post Graduate Diploma Management Program. He has more than 47 years of experience in the field. In 1974, he started his career as an Assistant Professor in an Engineering College. He was selected as a Commissioned Officer in the Indian Air Force in 1975. During his time in the IAF, he attended one semester Program on emerging technologies at the prestigious Indian Institute of Technology, Kanpur, and then a one-year Comprehensive Training at M/S Mecanique Aviation Traction Electronique (MATRA), a leading provider of mission-critical aerospace and aviation electronics technologies in France. He was delegated to DRDO's Electronics & Radar Development Establishment (LRDE) Laboratory to study the impact of Electro-Magnetic Pulse (EMP) on Electronics, Telecommunication, and Radar Systems, as well as how to initiate remedial measures to protect the Airforce's most sensitive and venerable assets. He was also involved in field trials of the INDRA Mark-1 Radar, which was made indigenously. He was also instrumental in performing multiple tests at DRDO sites, including the "Defence Laboratory" in Jodhpur, on several Defence Electronics Sensors.

He was specially selected as Project Leader for accomplishing highly critical jobs of successful inductions of Weapon-Systems on the Advanced French Fighter Aircraft, Mirage-2000s, during his active duty while in the IAF. He has commanded two Air Force Hi-Tech Field Training Units. In 1997, after 22 years of glorious dedicated service to the nation as Wing Commander, he chose to take pre-mature retirement from service, primarily due to his earnest pursuits to serve the society as an academician. Following his premature retirement, he was instrumental in the establishment of various technical Institutes of higher learning. He has worked as an academician, researcher, and Director-Principal in numerous institutions in the states of Punjab, Haryana, and Himachal Pradesh over the past 25 years. He was a member of the Punjab Technical University's Academic Committee in Kapurthala, Punjab. He was also a member of the Himachal Pradesh University's Academic Committee and Board of Engineering Studies in Shimla. He has been a visiting Professor at C-DAC, Mohali.

He has chaired numerous conferences on new technologies and has authored numerous research articles that have been published in peer-reviewed journals. His areas of interest includes: digital electronics, digital signal processing, electronic instrumentation, computer communication networks, data networks, wireless and optical-fiber communication, cyber security, ICT, etc. He has done pioneering Research and Development of Gold, Silver and Aluminum Nano-fluids for various applications. He has successfully implemented a number of innovative projects at the national level. He has received several accolades, honours, and awards from a number of distinguished organisations. He has also received Rotary International's prestigious International Excellence Award in Teaching. Apart from his technological endeavors, he has been involved in the upliftment of society's weakest members, particularly in the areas of health, hunger, and education. He has served as President of the Rotary Club of Panchkula and as Chairman and member of numerous Rotary District 3080 Welfare Committees.

In order to better assist the aspiring society, he joined a professional society called the "Institution of Electronics and Telecommunication Engineers (IETE)" in 1979. He has been involved with the IETE since then. His active involvement with IETE began in 1999, when he was elected to the Executive Committee, and he later became Chairman of the IETE Chandigarh Center (2004-06), where he made significant contributions to the construction of the auditorium, committee room, and the addition of e-learning facilities as a major source of revenue generation on campus. During his stint at IETE, Chandigarh Center, he functioned as a Ex-Officio Governing Council (GC) Member for IETE HQrs from 2004 to 2006. After that he was elected to the IETE GC for the next three terms (2010-13, 2015-18, 2019-2022). He was also given the opportunity to serve as a GC Member in 2014-15 owing to a casual vacancy in the IETE GC. He successfully hosted the Diamond Jubilee Seminar at NIT Srinagar in 2013, inaugurated the IETE Student's Forum (ISF), and attracted 70 corporate members to the pool of Corporate Members in 2013. He has taken strong initiatives in his role as Chairman, Co-Chairman, and member of different Committees at the IETE HQ over the years. As Chairman of the Board of Research, Innovation, and Standards (BoRIS), he has consistently emphasized the conduct of research activities at the headquarters and at IETE Centers across the country. He has also taken many steps to ensure the fair selection of IETE-sponsored PhD Research Scholars enrolled at prestigious universities and MTech Scholarships to deserving students. He has served on the Council of the Bureau of Indian Standards (LITD), Government of India, for many years, and has ensured that members of his committee are represented in the various BIS-LITDs Committees. In the years 2016, 2017, and 2018, he successfully organized the IETE flagship event "Innovator-Industry Meets," ensuring regular involvement of research scholars, innovators, industries, start-ups, and expert keynote speakers. As Chairman of BoRIS for the year 2020-21, he was actively involved in the creation of various Research Forums on the subjects of Advancements in Microwave Technologies, 6G, AI/ML, Cloud Computing, Cyber Security, Blockchain, IOT, Data-Analytics under the Lead Researchers, who will be responsible for taking up research projects from CSIR, DRDO, ISRO, and various PSUs and Private Sector Industries under the Lead Researchers. The majority of the Board of Research, Innovations, and Standards' operations are available on [www.iete.org](http://www.iete.org). He recently led the IETE Secretariat team in obtaining a SIRO Renewal Status extension till March 31, 2024. He has specific intentions to raise the exposure of IETE, as well as its revenue and resource generation. Implementation of digital transformation, digital repository, and e-Governance reforms at all levels in IETE would be his another focus area. He sees a lot of promise in the creation of an IETE Technical University in Ranchi and various IETE Centers of Excellence in various domains. He also wants to improve and establish connections between the government, the private sector, researchers, innovators, start-ups, and reputable academic institutions. This year's IETE Innovator-Industry Meet will be held as a National Event during the last week of

August 2021, under his leadership. Its goal is to provide a national platform where ideas and programs for a self-sufficient India in the sphere of defence production can

He is a member of the Computer Society of India (CSI), has served as Chairman of the Chandigarh Chapter, and is active in the e-Governance Special Interest Group.

He is currently the President Elect of the IETE and will take over as President on October 1, 2021.