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Professor Dr. Noor M. Butt did his M. Sc Physics (1957), from Government College of the Punjab University, Lahore, Pakistan. He did his Ph.D (Nuclear/Solid State Physics,1965) under the supervision of Professor P.B.Moon FRS at the University of Birmingham U.K. Based on his further authoritative research earned his D.Sc (Physics, 1993) also from the University of Birmingham. His areas of interest are ,*Crystal Diffraction studies using Mossbauer gamma-rays, Neutron Diffraction and Scattering from Solids, Research Reactor Utilization, Correlation of Micro-Macro properties of crystalline materials and Nanotechnology Applications and Nano Education.*

His classical research (1963) has been extensively cited for over 50 years till 2020 .He has published over 180 publications including research papers in refereed ISI-journals and Conferences and Reports..

His high quality research earned him Senior Alexander von Humboldt Award(Germany), Kharazmi International Prize(Iran), Pakistan Academy of Sciences Gold Medal(Pakistan),Fellowship of Pakistan Academy of Sciences, Fellowship of the Islamic Academy of Sciences IAS(Jordan), Senior Associate ICTP(Italy) ,the Civil Award of Sitar-i-Imtiaz (Pakistan) in 1991 and the Life Title of Scientist Emeritus by PAEC on his retirement in 1996 .

He is Member Editorial Boards of several National and International Journals (*including J. Nanoparticle Research, JNR , M/S Springer Verlag, Germany*). He was Chairman of the Pakistan Science Foundation (2005-2008).

Nanotechnology

Dr Butt is the initiator of Nanotechnology in Pakistan and worked as the Chairman of the National Commission on Nano Science and Technology (NCNST), Government of Pakistan during 2003-2008.

In Fall-2010, Dr. Butt established the Preston Institute of Nano Science and Technology (PINSAT) of the Preston University, Islamabad which is the first and the only Institute in Pakistan, probably at the time also in the OIC , which has produced BS(4yr) graduates with Multidisciplinary degree in "*Nanoscience and Nanotechnology*" *with advanced level nano-based courses in Biology, Physics, Chemistry and Materials Science*, to help meet the needs of human resource in Pakistan in this exciting technology regarded as ***Industrial Revolution*** .

The BS graduates of PINSAT having this multidisciplinary degree have been accepted for higher degree of MS in Germany, Belgium, Hong Kong, Italy, China, South Africa abroad and at

universities of Bahria Univ, NUST, IST, Riphah Univ and IIU in Pakistan indicating the wider extent of this multidisciplinary degree. These graduates have made excellent performance by winning Gold Medals and Honours at home and abroad.

In recent years Dr Butt is interested in Nanomedicine, an area of medicine fast developing due to exotic applications of nanotechnology in efficient treatment of serious diseases like Cancer and other inflammatory diseases and significant improvement in diagnostic tools like MRI , Ultra sound, or sensitive blood analysis concepts of Lab on the Chip and including recent fast detection COVID-19 Test Kits..
