

24 Years of Glorious Service

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Glad to share that I have completed **24 years of my glorious academic services** at NIT Srinagar, nonetheless had my share of sorrows too. To the best of my capabilities and diligence, have left behind a band of good deeds, few are worth to mention here:

In year 1999

Having Ph.D in Physics from Jamia Millia Islamia, New Delhi, Joined NIT Srinagar on **10th September, 1999** as Guest Faculty and on April 20, 2000 Joined as Permanent faculty in the Department of Physics.

In year 2000

Observed and felt that B.Tech students of Ist and II Semester require Laboratory Physics Text Book for carrying out experiments in labs. Worked for one year and published **Laboratory Physics (Now Lab in Sky)**, received appreciations from Principal, HOD Physics, HoD Physics Jammu Transit Campus and students.

In year 2002

Submitted a Major Research Proposal to UGC & DST, New Delhi for establishment of **Crystal Growth Laboratory**, which was approved under Minor category.

In year 2003

Was awarded INSA fellowship for a period of three months and for other programmes.

In year 2004

Appointed as Member-Secretary of Central Instrumentation Committee to look into the purchases of equipments and was assigned a job in preparing the National Competitive Bidding (NCB) for the institute in **World Bank supported project**, without receiving any training program.

In year 2005

Under the above assignment, I was the only faculty member who could establish and commission **Scanning Electron Microscope (SEM)**, one of the sophisticated

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equipments in the north of the country, out of 20.00 Crore funds, rest amount was returned after three years. SEM is being used to see minute objects like Corona-viruses.

In year 2006

Appointed as I/C Head, Department of Physics and was fortunate for being nominated to receive training Programme at Demo Laboratory Singapore by the Institute for Electron Microscopy.

In year 2007

Joined Prof. C.N R Rao's Laboratory at JNCASR, Bangalore for further training and techniques. Received fellowships and applied again for major UGC Project which was approved for two years, first of its kind in NIT Srinagar.

In Year 2007-2008

Selected for teaching position at King Khalid University Saudi Arabia, joined back NIT Srinagar shortly to make the SEM Laboratory functional, being the lone expert to operate the machine. Working abroad was marvelous.

This was turning point of my life.

In year 2008

Published a text book on Nanotechnology, entitled, **"Principles of Nanoscience and Nanotechnology"** with Dr. Tokeer Ahmad. The book received over whelming response across the country.

Under Sheikh Saqar Fellowship, joined again Prof. C.N R Rao's Laboratory at JNCASR, Bangalore for further training on Nanotechnology.

In year 2009-2011

Joined KAU, Jeddah again for Teaching assignment and returned in June 2011 to NIT Srinagar.

Administration was annoyed, received warning by the authorities, nevertheless the services rendered abroad was approved and increments for the same were released by BoG, NIT Srinagar.

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In year 2011 As an outreach program for faculty working in Universities/institutions, I was the first in Kashmir region to organize **Inspire Internship Programmes** for the Toppers of Valley at NIT Srinagar.

Received appreciations from Hon'ble Governor, Chairmans of BOG, Directors, Faculty, Parents and Public for such an initiative. Feedback of students is worth to put on record.

In year 2012 Edited a book on “Functional Nanomaterials for Energy & Environment Applications” and was published by Trans Tech Publications, Switzerland. Many colleagues and students were benefited.

Conducted NPTEL Examination first time in Kashmir and gave the importance of such courses in valley

In Year 2013 Hon'ble Governor released my book on, **Science of Small** at Raj Bhawan Srinagar in presence of Director, Deans and other faculty members. The book has been published by M/S Wiley.

In year 2014 Launched Super 30 in Baramulla for under privileged students of the valley and many were benefited.

Again Edited a Book on “Nanomaterials Applications for Improvement in Energy Efficiency and Environmental Management” and was published by IGI Global Publications, USA.

Received mega grant of **Rs. 2 Crore from DST, New Delhi** for establishing Nanotechnology Laboratory at NIT Srinagar. This was the highest grant received so far in NIT Srinagar.

In year 2015 Launched **M.Sc Physics Programme**, first time in the history of NIT Srinagar and so far 07 batches have completed their P.G degrees in Applied Physics.

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In year 2016 Organized one mega International Conference on “Nanotechnology for Better Living” from 25-29 May 2016 at NIT Srinagar in Collaboration with **IIT Kanpur**.

This was the first International Scientific event in Kashmir.

In year 2017/2018 Organized INSPIRE Internship Programme for 250 students from 26-30 November, 2017 and 7-11 Sep 2018, received appreciations across the state.

In year 2019 Organized another mega International Conference on “Nanotechnology for Better Living” from 25-29 May 2019 at NIT Srinagar in Collaboration with **IIT Kharagpur**.

In year 2020 During Covid, organized number of programs through on line mode.

In year 2021 Through dual mode, organized another mega International Conference on “Nanotechnology for Better Living” from 25-29 May 2021 at NIT Srinagar in Collaboration with **many Institutions**.

Submitted Proposal to Govt. of Jammu and Kashmir for establishment of **SAINT-Srinagar Advanced Institute of Nanotechnology**, which could be an Umbrella Institution for all Universities & Colleges across the state. It was around Rs. 100 Crore Proposal, with an aim to combat with challenging issues like pandemics.

I am honoured as a visiting scientist in many prestigious institutions and have worked with the eminent personalities including with Prof. C N R Rao, where I pioneered the fabrication of nanomaterials and received trainings for operation of sophisticated equipments. I explored versatile technique “**Safe way to Nanotechnology**” for the synthesis of oxide nanomaterials, though still in progress and practice.

I am a member of many science academies and societies and work has been cited by number of scientific reporters as well as scientific media. Visited around half a dozen countries and delivered invited/key note lectures, besides being resource persons on many scientific occasions. While organizing mega scientific events single handedly, was showered with compliments of single Man Army, Crises Manager and Koh-i-Noor of Kashmir.

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Have 100 Scopus/SCI Listed Peer reviewed papers.

Dr. Shah Mohammad Ashraf