

## Curriculum Vitae of Dr. Mohammed Asger

**MOHAMMED ASGER**  
M.Sc., M. Tech., Ph.D.



### *Official Positions Held*

#### **Dean**

School of Mathematical Sciences & Engineering Baba Ghulam Shah  
Badshah University Rajouri (J&K) - 185234  
Mobile: +919419103562  
[e-mail:masgerghazi@gmail.com](mailto:masgerghazi@gmail.com)

#### **Dean of Students**

Baba Ghulam Shah Badshah University Rajouri (J&K) - 185  
234

#### **Principal**

College of Engineering and Technology Baba Ghulam Shah  
Badshah University Rajouri (J&K) - 185234  
Mobile: +919419103562  
[e-mail: masgerghazi@gmail.com](mailto:masgerghazi@gmail.com)

#### **Court Member**

Allahabad Central University Nominated by  
President of India  
On recommendations of Ministry of Human Resource & Development,  
Government of India

#### **Residence**

Quarter Number BA-13, University Staff Quarters  
Dhanore, Rajouri  
Jammu & Kashmir - 185234

## General Information

**Name** : Dr. Mohammed Asger

**Father's name** : (Late) Mr. Nazir Hussain

**Date & Place of Birth** : Born 1962, Village Kote, Post Office Behrote, Tehsil

**Nationality** : Indian

**Category** : Schedule Tribe (ST)

**Official Address** : Dean, School of Mathematical Sciences & Engineering, Baba Ghulam Shah Badshah University, Rajouri (J&K) - India.

**Telephones (Res.)** : 09419103562  
**(Office)** : 01962241016

**Fax** : 01962241016

**E-mail Address** : [masgerghazi@gmail.com](mailto:masgerghazi@gmail.com)

## Educational Qualifications:

1. **Ph.D.** : Theoretical Computational Physics, Department of Physics, Jamia Millia Islamia, Central University, New Delhi - 110025, India
2. **M. Tech.** : Information Technology, Department of Computer Science, Punjabi University, Patiala, Punjab, India
3. **M. Sc.** : Physics, (specialization in Electronics), Department of Physics, University of Jammu, J&K, India

**Topic of Ph. D. thesis: Quantum Properties of Liquid & Solid Neon:** I Developed Molecular Dynamics Computer Simulations for incorporation of Quantum Corrections up to the order of  $\hbar^6$

## Professional Experience:

<u>S.No.</u>	<u>Designation</u>	<u>Duration</u>
1.	<b>Dean,</b> School of Mathematical Sciences and Engineering Baba Ghulam Shah Badshah University, Rajouri (J&K)	August 2009 till date
2.	<b>Dean of Students</b> Baba Ghulam Shah Badshah University Rajouri, Jammu & Kashmir	July 2015 till date
3.	<b>Principal</b> College of Engineering & Technology, Baba Ghulam Shah Badshah University Rajouri, (J&K)	July 2008 till date
4.	<b>Professor</b> School of Mathematical Sciences & Engineering Baba Ghulam Shah Badshah University Rajouri, (J&K)	Feb. 2007 – till date
5.	<b>Head</b> Department of Computer Sciences, Baba Ghulam Shah Badshah University Rajouri, (J&K)	June 2005 – till date
6.	<b>Project Director</b> (Academics) Baba Ghulam Shah Badshah University Rajouri, (J&K)	Jan. 2005 – May 2005
7.	<b>Dean/Director</b> College of Engineering & Technology IILM Academy of Higher Learning Greater Noida (NCR)	June 2003 – Jan. 2005
8.	<b>Professor</b> College of Engineering & Technology IILM Academy of Higher Learning Greater Noida (NCR)	June 2002 – May 2003

9. **Associate Professor** July 2000 – May 2002  
Galgotia University  
Knowledge Park II, Greater Noida- 201308
10. **Assistant Professor** Nov. 1998 – June 2000  
Amity University  
Science, Noida, Sector 44, UP- 201301 (NCR)
11. **Assistant Professor** Jan. 1990 – Oct. 1998  
Jamia Millia Islamia, Central University  
New Delhi - 110025

### **Projects: Completed/ongoing/Submitted**

#### **a) As Principal Investigator:**

1. *Centre of Excellence for Research, Innovation, Education & Entrepreneurship in Reconfigurable Computation*, Submitted to State Government Higher Education Department.
2. *Machine Translation System for translating English to Kashmiri and vice versa using statistical approach to machine translation*. Submitted to Department of Electronics & Information Technology, Government of India.
3. AICTE Project, *“Modernization and Removal of Obsolescence in Computing Facilities at BGSBU University*.  
Total project amount: **Rs. 15, 00,000/=**
4. AICTE Project, *“Entrepreneurship Development Cell”*  
Total project amount: **Rs. 13,50,000/=**
5. AICTE project, National Seminar Grant *“Current Trends in Mobile Computing”*  
Total project amount: **Rs. 60,000/=**
6. AICTE project *“Staff Development Programme”*  
Total Project amount: **Rs. 3, 28,000/=**
7. State of Council for DS&T Project *“Short Term Industry Specific Training Programme on Biomedical Engineering”*  
Total Project amount: **Rs. 2,25,000/=**
8. Ministry of Textile, Government of India Project *“Chikri Wood Craft”*  
Total Project amount: **Rs. 94,00,000/=**

**b) As Co-Principal Investigator:**

1. DST Project, "Establishment of Regional Resource Agency for DNA Club (DBT's Natural Resource Awareness) Club"

Total project amount: Rs. 31, 32,000/=

**Current Research Foci:**

- i) Artificial Intelligence
- ii) Quantum Computers and Algorithms
- iii) Mobile Computing
- iv) Wavenets & Image Processing
- v) Data Mining and Data Warehousing
- vi) Web Mining & Information Retrieval

**Ph. D. & M. Phil. Students Guided/Under Supervision: 11**

S. No.	Name of Student	Title of Research Work	Programme
1	Mr. Tasleem Arif	Social Network Extraction Using Web Mining Techniques	Ph.D.
2	Mr. M. Ahstham Malik	A Framework for Anomaly Detection and Classification of attacks using Bayesian Networks: Data Mining Approach	M. Phil.
3	Mr. Satish Kumar	Analysis of Clustering Techniques In Biological Data With <i>R</i>	M. Phil.
4	Mr. M. Yasin Pir	Application of Wavelets neural Network in Financial Time Series	Ph.D.
5	Mr. Qamar Rayees Khan	Analyzing & Interpreting the Threat Mitigation Strategies in Information System: Conceptual & Operational Explorations	Ph.D.
6	Mr. Majid Bashir Malik	Soft-computing based Privacy Preserving Data Mining	Ph.D.
7	Mr. Shahzad Ahmed Mughal	Study of Network Architecture & Parallel Data Structure for	Ph.D.

		Multicore Computers	
8	Mr. Hasseb Ahmed Khateeb	A novel model for Knowledge Representation	Ph.D.
9	Ms. Samiah Jan	Extraction of Useful Information from Web Content Using Various Techniques	Ph.D.
10	Mr. Mir Aadil	Development of a Statistical Approach Based English-Kashmiri Machine Translation System	Ph.D.
11	Ms. Masooma Yousaf	Emperical Evaluation of Software Elicitation Methods	Ph.D.

### **Scholarships/Memberships/Awards Achieved:**

- 1 **Member:** MHRD Nominated Court member Allahabad University for a period of three years 2014 - 2017
- 2 **Life Member :** Indian Society of Technical Education, New Delhi
- 3 **Member:** University Executive Council, Baba Ghulam Shah Badshah University.
- 4 **Member:** University Academic Council, Baba Ghulam Shah Badshah University.
- 5 **Member:** Faculty Selection Committee: Indra Gandhi National Tribal University, Amarkantak, MP
- 6 **Member:** Project Screening Committee, J&K State Council Department of Science and Technology.
- 7 **Chief Proctor:** Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir.
- 8 **Chief Vigilance Officer:** Baba Ghulam Shah Badshah University, Rajouri, Jammu
- 9 **Chairman:** Anti ragging Squad, Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir.
- 10 Offered membership by New York Academy of Science.
- 11 Senior and junior research fellow: Under Indo US research project of Theoretical Study of Condensed Systems.

- 12 **Officer in charge**, Computing and Internet facilities of University.
- 13 **Chairman**: Institute Management Committee, Government Industrial Training Institute, Sunderbani, District, Rajouri (J&K).
- 14 **Chairman**, Institute Management Committee, Government Industrial Training Institute, Mendhar, District, Poonch (J&K).
- 15 **Chairman**, Institute Management Committee, Government Industrial Training Institute, Surankote, District, Poonch (J&K)

As Chairman, my responsibilities include:

- *Up gradation of the existing technical trades.*
- *Establishment of new trades as per the requirement of market.*
- *Creation & Development of necessary infrastructure required to impart education and quality training.*
- *Produce trained and skilled manpower for industry & public enterprises.*

## **Publications:**

### **a) Journal Papers:**

- 1 Satish Kumar & Mohammed Asger (2015), "*Analysis of Clustering Techniques in Biological Data with R*" International Journal of Computer Science & Information Technology (IJCSIT), Vol. 6, No. 2, pp. 1859-1864.
- 2 Tasleem Arif, Rashid Ali and M. Asger (2015) "*Metadata based author name disambiguation.*" Communicated to IEEE Transactions on Knowledge & Data Engineering.
- 3 Tasleem Arif, Rashid Ali and M. Asger (2015) "*Understanding research collaborations using social network analysis.*" Communicated to Journal of Information and Knowledge Management, World Scientific, ISSN: 0219-6492.
- 4 Q. Rayees Khan, Muheet A. Butt & M. Asger, M. Zaman, (2015) "*Threat Mitigation Strategy in Information System using Intrusion Detection System: A General Classification Reviews*", International Journal of Computer Science-IJCA", ISSN: 0975-888D, Vol. 15 No.10 pp. 4-8.
- 5 Q. Rayees Khan, Muheet A. Butt & M. Asger, M. Zaman, (2015) "*Integrity Model based Intrusion Detection System: A Practical Approach*", International Journal of Computer Science-IJCA", ISSN: 0975-8887, vol. 115, No. 10, pp. 9-12.
- 6 Masooma Yousuf, M. Asger (2015) "*Comparison of Various Requirements Elicitation Techniques*" International Journal of Computer Applications (0975 – 8887) Volume 116, No. 4.

- 7 Tasleem Arif, Rashid Ali and M. Asger (2014) "*Social network extraction: A review of automatic techniques.*" International Journal of Computer Applications, USA, ISSN: 0975-8887, Vol. 95, No. 1, pp. 16-23.
  - 8 Tasleem Arif, Rashid Ali and M. Asger (2014) "*Author name disambiguation using two stage clustering.*" INROADS, ISSN: 2277-4904, Vol. 3, No.1, pp. 340-345.
  - 9 M. Yasin Pir, Firdous Ahmad Shah and M. Asger,(2014) "*Using Wavelet Neural Networks to Forecast IIP Growth with Yield Spreads*" International Journal of Computer Science, vol.2, 31-36, 2014.
  - 10 Q. Rayees Khan, Muheet A. Butt & M. Asger, (2013) "*Information Cleanup Formulation: Pragmatic Solution*", International Journal of Global Research in Computer Science (IJGRCS)", ISSN: 2229-371X, Vol. 4, pp. 83-87.
  - 11 Q. Rayees Khan, Muheet A. Butt & M. Asger, (2013) "*Review of Intrusion and Anomaly Detection Techniques*", International Journal of Modern Engineer Research (IJMER)", ISSN: 2249-6645X, Vol. 4, pp. 1-7.
  - 12 Ahtasham Malik, M. Asger and Afaq Alam, (2013) "*Research on Intrusion Detection Systems: A Survey*" Submitted for publication to International Journal of Computer Applications and Management 2013.
  - 13 Q. Rayees Khan, Muheet Ahmad Butt & M. Asger, (2012) "*A Novel Approach based information Integrity Modeling.*" International Journal of Engineering Science and Innovative Technology -IJESIT", ISSN: 23195967, Vol. 2, pp. 210-215.
  - 14 Tasleem Arif, Rashid Ali and M. Asger (2012) "*Scientific co-authorship social networks: A case study of computer science scenario in India.*" International Journal of Computer Applications, USA, ISSN: 0975-8887, Vol. 52, No. 12, pp. 38-45.
  - 15 M. Asger, & Firdous A. Shah, (2008) "*Pointwise Convergence of Multiwavelet Packet Series.*" International Journal of Mathematical Analysis, Vol.2, No.9, pp.447-456
  - 16 M. Asger, Q. N. Usmani, (1999) "*Kinetic Energies of Liquid and Solid Neon.*" Physica B 172.
  - 17 M. Asger, Q. N. Usmani, (1994) "*Kinetic Energies of Liquid and Solid Neon.*" Physical Review B49, pp. 12262.
- b) International Conference Papers:**
- 18 Tasleem Arif, Rashid Ali, M. Asger and Majid Bashir Malik (2015) "*Author name disambiguation using a mix of hard & fuzzy clustering.*" In Proceedings of International Conference on Advances in Computers, Communication and Electrical Engineering (COMMUNE-2015), Srinagar, India, ISBN: 978-93-82288-54-1, pp. 29-33.
  - 19 Majid Bashir Malik, M. Asger, Rashid Ali and Tasleem Arif (2015) "*Privacy preserving data mining using fuzzy based approach.*" In Proceedings of International Conference on Advances in Computers, Communication and Electrical



- Engineering (COMMUNE-2015), Srinagar, India, ISBN: 978-93-82288-54-1, pp. 336-338.
- 20 Samiah Jan Nasti, M. Asger, Muheet Ahmad Butt, Majid Ahmad Baba. (2015) "*BiG DATA Growing Tide, not Hype.*" In Proceedings of International Conference on Advances in Computers, Communication and Electrical Engineering (COMMUNE-2015), Srinagar, India, ISBN: 978-93-82288-54-1, pp. 336-338.
  - 21 Mir Aadil, M. Asger, Vishal Goyal (2015) "*English-Kashmiri Machine Translation: Challenges and Issues.*" In Proceedings of International Conference on Advances in Computers, Communication and Electrical Engineering (COMMUNE-2015), Srinagar, India, ISBN: 978-93-82288-54-1, pp. 336-338.
  - 22 Tasleem Arif, Rashid Ali and M. Asger (2015) "*Exploring Academia Industry Linkage Through Co-authorship Social Networks.*" Accepted for Complex Adaptive Systems 2015, Missouri University of Science & Technology, USA, Elsevier.
  - 23 Tasleem Arif, Rashid Ali, M. Asger and Majid Bashir Malik (2015) "*Extracting Academic Social Networks Among Conference Participants.*" In Proceedings of 8th IEEE International Conference on Contemporary Computing-IC3-2015, IEEE Press
  - 24 Tasleem Arif, Rashid Ali and M. Asger (2014) "*Author name disambiguation using vector space model and hybrid similarity measures.*" In Proceedings of 7th IEEE International Conference on Contemporary Computing-IC3-2014, IEEE Press, pp. 135-140.
  - 25 Manmeet Singh and M. Asger, (2014) "*Services and Version Fingerprinting Techniques and Countermeasures.*" International Conference on Computer Networks and Information Technology (ICCNIT) March 20-21, 2014 National Institute of Technical Teachers, Training and Research, Chandigarh, ISBN: 978983842278, pp.206-213.
  - 26 Tasleem Arif, Rashid Ali and M. Asger (2012) "*An overview of social network extraction systems.*" In Proceeding of 2<sup>nd</sup> International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies (ICNICT-2012), Delhi.
  - 27 Tasleem Arif, Rashid Ali and M. Asger (2012) "*Mining and analyzing scientific co-authorship social networks.*" In Proceeding of IEEE International Conference on Information Management in the Knowledge Economy (IMKE-2012), Chandigarh, pp-14-21.
  - 28 Ram Singh and M. Asger, (2012) "*Mathematical Modeling of Molecular Medicine to solid tumour with chemotherapy.*" Communicated for Publication in Journal of Applied Mathematics and Computation.
  - 29 Ram Singh and M. Asger, (2011) "*Stability Analysis of SIR Model with Vertical Transmission*" e-Proceedings of International Conference on Advances in

Modeling, Optimization and Computing, IIT Roorkee, Dec., 5-7, 2011, pp. 291-300.

**c) National Conference Papers**

- 30 Tasleem Arif, Rashid Ali, M. Asger and Majid Bashir Malik (2014) "*Understanding research collaborations through co-authorship social networks.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 31 Tasleem Arif, Rashid Ali and M. Asger (2014) "*Author profile integration using digital citations and web mining techniques.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 32 Majid Bashir Malik, Rashid Ali, M. Asger and Tasleem Arif (2014) "*Privacy preserving using fuzzy clustering.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 33 Mir Aadil, M. Asger and Vishal Goyal(2014) "*Divergence Patterns for English To Kashmiri Translation.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 34 Samiah Jan Nasti, Muheet Ahmad Butt, M. Asger (2014) "*Web Mining: A Road Map.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 35 Samiah Jan Nasti, M.Asger, Muheet A. Butt (2014) "*Data Mining: Past, Present and Future.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 36 Masooma Yousuf, M. Asger (2014) "*An overview of Different Requirement Elicitation Techniques.*" In Proceeding of National Conference on Recent Innovations and Advancements in Information Technology (RIAIT-2014), Rajouri, India, ISBN: 978-93-5212-284-4.
- 37 Tasleem Arif, Rashid Ali and M. Asger (2013) "*Clustering methods for author name disambiguation.*" Regional Seminar on Information Technology, Computer Research and Development-Emerging Paradigms in Modern World, Jammu, India.
- 38 Q. Rayees Khan, Mubasher Hassan, Muheet Ahmad Butt, M. Asger (2013) "*Threat Mitigation in information Systems using Data Mining Techniques: A General Review.*" 9th JK Science Congress, University of Kashmir.
- 39 Tasleem Arif, Rashid Ali and M. Asger (2012) "*The mathematics of social network*

- analysis.*" National Seminar on Applications of Mathematics to Science and Technology, Rajouri, India.
- 40 Sanjay Jamwal and M. Asger, (2009) "*A Survey of QoS in Mobile Adhoc Networks.*" IEEE National Conference, Punjabi University Patiala, March 7& 8, 2009.
  - 41 Tasleem Arif and M. Asger (2008) "*MANET's security: Impact of cryptography overhead on networking performance.*" In Proceeding of National Seminar on Current Trends in Mobile Computing, Nov 28-29, 2008, Rajouri, India.
  - 42 M.Y. Pir, Q.R. Khan, M. Asger (2008) "*General Information Security Concerns in Business Organizations.*" 4th J&K Science Congress held at University of Kashmir.
  - 43 M.Y. Pir, Q. R. Khan, M. Asger (2008) "*Current Challenges in Mobile Communication- A General Review.*" AICTE sponsored National Seminar on Current Trends in Mobile Computing (CMTC-08), BGSB University.
  - 44 M. Asger (2008) "*Information system in Business: A Critical Review.*" An Invited talk in AICTE sponsored National Seminar on Current Trends in Mobile Computing (CMTC-08), held at BGSB University.

### **Edited Book**

1. Proceedings of the National Seminar on "Current Trends in Mobile Computing, November 27 - 28, 2008
2. Proceedings of the National Conference on "Recent Innovations and Advancements in Information Technology, November 26 - 27, 2014, ISBN : 978-93-5212-284-4

### **Invited Talks:**

1. New Trends in Applied Mathematics, Department of Applied Mathematics, BGSB University 2013.
2. Application of Pauli's Algebra in describing Qubit, Department of Applied Mathematics, Baba Ghulam Shah Badshah University, Rajouri, 2012.
3. New Concepts in Teaching Methodology, AICTE, Staff Development Programme, Government Engineering College, Jammu, January 2011.
4. Quantum Computation and Quantum Information, AICTE, National Seminar on "Current Trend in Mobile Computing" November 28 & 29, 2008.
5. Intelligent Agents, AICTE sponsored Staff Development Programme, June 11 - 25, 2009.

6. Monte Carlo Molecular Dynamics Computer Simulations, Nuclear Science Centre, New Delhi, October 1994.
7. Molecular Dynamics Computer Simulations, International Workshop on use of Computers in Teaching of Physics, Rani Durgavati University, Jabalpur (MP) January 03 - 09, 1992.

### **Conference and Workshops Attended/Participated:**

1. **Workshop on design of syllabi for Engineering & Diploma Courses**, Organized by Department of Technical Education & Board of Technical Education in collaboration with National Institute of Teachers Training & Research Chandigarh, November 20, 2014.
2. **Symposium on Astro-Particle and Nuclear Physics**, 21-22 January 2014, Centre for Theoretical Physics, Jamia Millia Islamia, New Delhi.
3. **Workshop on Android Application Development**, Organized by Department of Computer Science and Engineering, BGSB University, Rajouri March 27-29, 2014
4. **National Network Security Championship** in collaboration with ACM & IIT Delhi, Department of Information Technology and Engineering, BGSB University, Rajouri, March 13-14, 2014
3. **Workshop on Information Security and Cyber Forensics**, October 9-10, 2013, Department of Information Technology and Engineering, BGSB University, Rajouri.
4. **National Cyber Safety and Security Standard Summit**, April 27 & 28, 2013, Chennai, Tamil Nadu, India.
5. **ITI Excellence Program**: Confederation of Indian Industry (CII) Central & Regional Committee on Skills & Education April 2012.
6. **CII Study Mission: Visit to various Industrial Training Institutes Northern India**, September 2012.
7. **CII Workshop Skill Development Programme**, August 2013.
8. **RFID and Microcontrollers Based Pervasive Computing**, Department of

- Computer Science & Engineering, BGSBU April 22-26, 2013.
9. **National Vocational Education Qualification Framework in J&K**, in collaboration of Department of Higher Education, J&K State & AICTE, New Delhi December 17th, 2011, University of Jammu
  10. **IEEE Second International Conference on Advance Computing ( IACC-10)** Thapar University February 19 & 20 , 2010, Chaired A Session.
  11. **Chief Coordinator**, AICTE Sponsored Entrepreneurship Development Programme, August 3 - 18, 2009.
  12. **Convener**, National Seminar on "Current Trends in Mobile Computing" BGSB University, Rajouri, November 28 & 29, 2009.
  13. **Coordinator**, AICTE, Sponsored Staff Development Programme, Department of Computer Sciences, BGSB University, Rajouri, June 11 - 25, 2009.
  10. **Workshop on "Nanomaterials"** Department of Physics, Jamia Millia Islamia, New Delhi, March 11, 2004.
  11. **VI International Workshop on Physics of Material**, Department of Physics, Jamia Millia Islami, New Delhi, December 7 - 22, 1987.
  12. **XIV International Summer College on Condensed Matter Theories**, Pakistan Atomic Energy Commission, Islamabad June 6 - 22, 1989.
  13. **National Seminar on Recent Trends in Nuclear Particle Condensed Matter Physics**, Department of Physics, Jamia Millia Islamia, New Delhi, March 14 - 15, 1997.
  14. **National Science Congress**, Department of Physics and Astro Physics, University of Delhi, February 1994
  15. **National Seminar on Recent Advances in Cosmology and Astrophysics**, Department of Physics, Jamia Millia Islamia, New Delhi, February 23 - 24, 2001.
  16. **Quantum Theory: Perspectives and Challenges**, Department of Physics, Jamia Millia Islamia, New Delhi, March 7, 2003.
  17. **AICTE NBA Awareness Workshop**, College of Engineering and Technology, Galgotia University, Sponsored by All India Council of Technical Education, New Delhi, February 2003.

**Teaching Experience:** 22 years teaching experience at Undergraduate and Postgraduate levels

**a) Teaching at Undergraduate level (B. Tech. & B. Sc.)**

- i) Mechanics
- ii) Electrodynamics
- iii) Digital Signal Processing
- iv) Quantum Mechanics
- v) Digital Electronics
- vi) Mathematical Physics
- vii) Engineering Physics
- viii) Mathematical Logic
- ix) Discrete Mathematics
- x) Theory of Computation
- xi) Graph Theory
- xii) Electromagnetic Theory
- xiv) Artificial Intelligence
- xv) Parallel and Distributed Computing
- xvi) Theory of Automata and Formal Languages

**b) Teaching at Postgraduate level (MCA, M.Sc. Physics, M.Sc. Electronics)**

- i) Artificial Intelligence
- ii) Parallel and Distributed Computing
- iii) Theory of Automata and Formal Languages
- iv) Advanced Nuclear Physics
- v) Quantum Mechanics
- vi) Computational Physics
- vii) Computer Programming in Fortran
- viii) Computer Programming in C Sharp
- ix) Computer Operating System
- x) Unix & Linux Operating System
- xi) Discrete Mathematics & Graph Theory
- xii) Data Communication & Computer Networks
- xiii) Data Structures and Algorithms
- xiv) Numerical Techniques

### **Professional Training Courses Attended:**

- i) Training course on Unix Operating System and System Administration from Wipro Information Technology Ltd., New Delhi.
- ii) Training course on Unix Operating System and System Administration (Magnix MultiRisc System) from HCL Ltd., New Delhi.
- iii) Training course on DEC OSF and System Administration of Alpha DEC 3000, M900 systems from Digital Equipments Corporation India Ltd., New Delhi.
- iv) Training course on Wolform Mathematica Software.

### **Administrative Experience:**

I have an adequate teaching and educational administrative experience and have remained associated with pioneer group of technocrats, who have established number of technical institutions in National Capital Region (NCR). I worked in the following institutions in various administrative and teaching capacities.

#### **i) Amity University, Sector 44, Noida**

I have been a founder member of Amity School of Computer Sciences. The school was affiliated to Meerut University, UP. I worked as officiating Director, and developed laboratory infrastructure for conducting Master & Bachelor Degree Courses in Computer Science. I was responsible for AICTE & University compliance related affairs and conduct of University examinations as well.

#### **ii) Galgotia University, Greater Noida**

I have been a founder Member and Coordinator UP State Engineering Entrance Test (UPSEET) for admission in Technical Colleges of UP State, for NCR. Discharged duties as Superintendent UP Technical University Examinations, Nodal Centre, Greater Noida. Worked as Dean, Applied Sciences & Humanity.

#### **iii) College of Engineering and Technology, IILM, Greater Noida**

I have been one of the founder members of the institute and worked as Dean cum Director of Engineering College, Greater Noida. I conducted the entire

spade work for AICTE approvals and UP Technical University, Lucknow affiliation for following B.Tech. and Postgraduate Programmes.

**a) B. Tech. Programme:**

- ii) Electronics and Communication Engineering
- iii) Computer Science and Engineering
- iv) Biotechnology Engineering
- v) Electrical Engineering
- vi) Mechanical Engineering

Established collaboration with Michigan Technical University USA and signed MoU for starting a twining engineering degree course at IILM, Greater Noida. Under the MoU the students were offered initial two years study course in IILM and next two years course at Michigan Tech. USA.

**b) Postgraduate Programme:**

- i) Master of Computer Application (MCA)
- ii) Master of Business Administration(MBA)

**iv) Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir**

I joined Baba Ghulam Shah Badshah University, Rajouri (Jammu & Kashmir State) as Project Director Academics, and established the School of Mathematical Sciences & Engineering, now offering MCA, M.Sc. Information Technology, BCA, B. Sc. Information Technology, four-year B. Tech Degree and three-year Diploma Engineering courses. At the inception, initiated the process of getting AICTE approval for all the courses of technical nature in the University and designed the course curricula as well, developed the entire infrastructure for running the technical courses. Besides, initiated the recruitment process for faculty and technical staff required for various departments/sections of the University.

In addition, I played a pivotal role in the establishment of the College of Engineering & Technology in the University as a constituent institute. The Collage has started functioning in 2007 and now offers B. Tech. Degree courses in the following 5 Engineering Streams.



1. Computer Science & Engineering
2. Information Technology & Engineering
3. Electronics and Communication Engineering
4. Civil Engineering
5. Electrical and Renewable Energy Engineering

I submitted a proposal to Technical Education Department, Jammu and Kashmir Government, for setting up of one of the Polytechnic Colleges in the University Campus out of the 36 Polytechnic Colleges being approved by the Central Government and established it as first one in State during the year. The Jammu & Kashmir Government sanctioned an amount of Rs. 12.30 crores for this project. The Polytechnics was made fully functional in 2009 and now offers three-year Diploma Engineering Programmes in the following four engineering streams.

1. Electronics and Communication Engineering
2. Electrical and Renewable Energy
3. Engineering Mechanical Engineering
4. Civil Engineering

Currently, I am heading the School of Mathematical Sciences & Engineering as Dean and also working as Principal College of Engineering and Technology.

After joining as Principal, College of Engineering and Technology created an ambience among faculty members to pursue higher studies leading to Ph.D. degrees and also made it possible for faculties have B. Tech. /BE degrees to pursue M. Tech. & ME through sequential & Modular Programmes.

Now I am working on feasibility of starting following Postgraduate Prgrammes & Undergraduate Programmes in Baba Ghulam Shah Badshah University;

- i). M.Sc. Physics
- ii). M. Tech. (Computer Science & Engineering, Information Technology Engineering & Electronics & Communication Engineering
- iii). B. Tech. Mechanical Engineering
- iv). B. Tech. Electrical Engineering (Evening Course)
- v). B. Tech. Civil Engineering (Evening Course)

I have already prepared the necessary documents for these programmes & waiting for Honorable Vice Chancellors' NOD to start these programme.

**Coordinator: Federation Arrangement: International Centre For Theoretical Physics ( Abdus Salam International Centre), ICTP, Trieste, Italy**

Established an association of Baba Ghulam Shah Badshah University with the Abdus Salam Centre of Theoretical Physics, Trieste, Italy, under Associate Scheme. The Associate Scheme is one of ICTP's Programmes, to provide support for distinguished scientists in developing countries in an effort to lessen the brain-drain. The main aims & objectives of the associate scheme are:

- The Federation Scheme was established with the aim of giving the opportunity to junior representatives of scientific institutes in developing countries to participate in the ICTP's activities.
- This arrangement will provide an opportunity to young scientists and scholars of the Baba Ghulam Shah Badshah University to visit ICTP for their research work in the frontier areas of their field. Under this scheme the financial support is being provided by ICTP.

Under the frame of Federation Arrangement Scheme I sent Dr. Ram Singh, Assistant Professor, Department of Applied Mathematics to ICTP, Trieste Italy to attend "ICTP-ESF School and Conference in Dynamical Systems | (smr 2340)" for a period of 20 days with effect from May 19, 2012 to June 08, 2012.

**Teaching Interests:**

My educational background and work experience provides me technical skills to design & develop course curricula and infrastructure for technology oriented courses, and to deliver as a teacher. This includes programming languages, Theory of Computation, Parallel & Distributed Computing, Artificial Intelligence, Digital System Processing, Discrete Mathematics, Digital Electronics and Signals and Systems etc.

In addition to this, I have guided 1 Ph. D. and 2 M. Phil. students, and at present am supervising 8 Ph. D. students who are working in various areas of computer science and information technology. Couple of students are about to submit their thesis within next few months.

**References:**

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