

# Dr. Aasim Ullah Jan

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## Research Interests

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Wave propagation and scattering, Metamaterials, Diffraction theory, Numerical techniques for PDE's.

## Teaching & Employment

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Lecturer (Regular) Since July, 2012

Department of Mathematics and Statistics, Bacha Khan University Charsadda. KPK, Pakistan-

Courses Taught: Viscous

Fluid I, Perturbation Methods I & Advanced Partial Differential Equations (MS Math). Ordinary Differential Equations, Partial Differential Equations & Numerical Analysis (M. Sc Math). Calculus I, II & III & Discrete Structures (BS Math).

Lecturer (Regular) May, 2012–July, 2012

Department of Mathematics, Abdul Wali Khan University Mardan, KPK, Pakistan

Subject Specialist in Mathematics (Regular) Sept. 2006– May, 2012

Elementary & Secondary Education Department, Govt. of KPK, Pakistan.

## Academic Positions

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HoD, Department of Mathematics, Bacha Khan University, Charsadda Aug. 2014-Aug. 2015

Controller of Examination, Department of Mathematics and Statistics May, 2012-Sep. 2015

## Education

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Ph.D. Mathematics (Defense expected in April, 2019) Feb. 2015–April, 2019

Department of Mathematics, COMSATS University Islamabad, Pakistan

– Dissertation: On Mode Matching Investigation of Two Dimensional Acoustic Wave guide Structures.

– Advisor: Dr. Rab Nawaz, Assistant Professor, Department of Mathematics, COMSATS University, Islamabad, Pakistan.

M.S. Mathematics (Solving Population Balance Equations with Quadrature Methods of Moments) Sep. 2008–April, 2010

Department of Mathematics, COMSATS University, Islamabad, Pakistan

– Advisor: Prof. Shamsul Qamar, Department of Mathematics, COMSATS University, Islamabad, Pakistan

## Distinctions & Awards

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Award under IRSIP

October. 2017–April. 2018

From Higher Education Commission of Pakistan for Research activities at University of Bristol, United Kingdom.

Fully funded Merit Scholarship during M. S 2008-2010

From COMSATS University, Islamabad

Second Position Award 2000-2002

From Gomal University Dera Ismail Khan-Pakistan

## Scientific Publications

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### Published Articles

1. I. Hussain, S. Mukhtar, S. Qamar and **A.U. Jan**. Bivariate extension of Quadrature method of moments for solving volume-based population balance models. World Applied Science Journal. 23(12): (2013), pp. 41-47.
2. M. Afzal, R. Nawaz and **A.U. Jan**. Attenuation of dissipative device involving coupled wave scattering and change in material properties. Applied Mathematics and Computation. 290(2016): pp. 153-164.
3. R. Nawaz, A. U. Jan and M. Afzal. Fluid-structure coupled wave scattering in a flexible duct at the junction of planar discontinuities. Advances in Mechanical Engineering 9 (7): (2017).pp, 1-11.
4. **A. U. Jan** and R. Porter. Transmission and absorption in a waveguide with a metamaterial cavity. The Journal of the Acoustical Society of America 144(6): (2018). pp. 3172-3180.
5. Haleem Afsar, Rab Nawaz and Aasim Ullah Jan. Wave scattering of non-planar trifurcated waveguide by varying the incident through multiple regions. Advances in Mechanical Engineering 12 (11), (2020).pp, 1-13.

## Personalialia

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Date/Place of Birth:	April 13, 1977/ Charsadda
Nationality:	Pakistani.
Marital Status:	Married.
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