

Dr. SHILPI BISHT

Assistant Professor, Mathematics

BIAS, Bhimtal, Uttarakhand

shilpibisht@birlainstitute.co.in

Educational Qualifications: Ph.D. (Mathematics), M.Sc. -Gold Medal, CSIR-UGC NET

Experience: 15 years teaching and 12 years research experience

Administrative Responsibilities:

1. Coordinator, Girls Counselling Cell
2. Hostel Warden, Girls Hostel
3. Member, Academic Programme committee

List of Research Publications:

1. **Shilpi Bisht** ,Riyaz A. Khan, An Adaptive Cubic Spline Approach for Solving a Second Order Singularly Perturbed Boundary Value Problem, International J. of Math. Science. & Engg. Applications, 5 (IV), (2011), 343-351.
2. **Shilpi Bisht** ,Riyaz A. Khan, Parametric Quintic Spline solution for second order singularly perturbed Boundary value Problem, IEEE Computer Society,2011 International Conference on Communication Systems and Network Technologies, (2011), 607-610. (SCOPUS)
3. Arshad Khan, **Shilpi Bisht**, Exponential spline approach for the solution of fourth-order obstacle boundary value problems, FILOMAT, 26(5), (2012), 993–1004. (SCI)
4. Neeraj Bisht , Amir Ahmad, **Shilpi Bisht**, Application of feature selection method and ensembles on network security dataset, Int. J. of Computer Applications, 135 (11), (2016), 1-5.
5. Anshul Srivastava, **Shilpi Bisht**, Error Estimates using Higher modulus of smoothness in Lp spaces, accepted for publication in conference proceedings being published by Springer, (2019).

6. Arshad Khan, **Shilpi Bisht**, Exponential Spline Solution of Boundary Value Problems Occurring in the Plate Deflection Theory, Proc. National. Academy of Sciences, Sect. A Phys.Sci..(2020) (**SCI**)

Conferences Organized:

1. **Organizing Secretary**, International conference on Science, Social Science, Agriculture and Management, June 12-14, 2017 organized by BIAS, Bhimtal in association with FATER Academy of India and Marathwada Mathematical Society, Aurangabad.
2. **Organizing secretary and Co- Chair**, 3rd IEEE conference on Internet of Things: Smart Innovation and Usages, Feb 23-24, 2018 organized by BIAS, Bhimtal in association with IEEE U.P. Section and Uttarakhand Science Education & Research Centre (USERC).

Conferences / Symposium/ Worksop Attended:

1. Instructional School on Partial Differential Equations and National Symposium on Hyperbolic PDEs, IIT Bombay, 22 June -17 July 2008.
2. International Conference of Women Mathematicians, University of Hyderabad, August 17-18, 2010.
3. International Congress of Mathematicians (ICM), Hyderabad, August 19-27, 2010.
4. International Conference on Analysis and its Applications, AMU, Aligarh, Nov 19-21, 2011.
5. NPTEL Workshop, IIT Madras, 2014.
6. Awareness workshop on “The facilities of UGC-DAE Consortium for Scientific Research”, D.S.B. campus, Kumaun University, Nainital, April 5-7, 2016.
7. Workshop on technology Enabled Learning, MBPG College, Haldwani, July 26, 2016.
8. ICSSAM 2017, BIAS Bhimtal, June 12-14, 2017.
9. 3rd IEEE conference on IoT-SIU 2018, BIAS Bhimtal, Feb 23-24, 2018.
10. Virtual Labs, IIT Delhi, April 16, 2018.
11. Symposium on Digital Engagement at Community level, BIAS Bhimtal, Feb 16, 2019.
12. Programme on Learning Management through Internet Communication Technology, DST in collaboration with Birla Institute of Applied Sciences, Bhimtal, Feb 2019.
13. Online Workshop on Universal Human values, AICTE, April 2020.
14. FDP on Sparking Collaborative Learning Online : Lets go Digital, UGC-HRDC, June 2020.

Papers Presented in Conferences / symposium:

1. An Adaptive cubic spline approach to solve a second order singularly perturbed boundary value problem, International Congress of Mathematicians, Hyderabad, 2010.
2. Non polynomial Quintic spline approach for the solution of the system of fourth order boundary value problems, ICAA, Aligarh, 2011.
3. Application of classifier ensemble methods for Autism Detection, Symposium on Digital Engagement at Community level, Bhimtal, 2019.

Achievements / Awards:

1. Gold Medal in NPTEL online Certification on “Calculus for Economics, Commerce and Management” Ministry of HRD, Govt. of India, 2018.
2. CSIR- UGC NET Qualified in Dec 2005 and June 2006.
3. Gold Medal in M.Sc., Lucknow University, 2005.
4. Certificate of Merits for securing highest marks in B.Sc., ITPG College, Lucknow, 2002.