CURRICULUM VITAE OF DR. MD. ABU HANI SARKAR

1. **Personal Information**

   Name   : Dr. Md. Abu Hanif Sarkar.
   Date of Birth   : 14 October 1982.
   Place of Birth   : Chandpur, Bangladesh.
   Nationality   : Bangladeshi
   Civil Status   : Married with two children
   Mailing Address   : Assistant Professor
                            : Department of Mathematics
                            : Jagannath University
                            : Dhaka-1100
                            : Bangladesh
                            : Cell No. (+088) 01712326886
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2. **Education Qualification**

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   2020   : Ph.D. in Mathematics
                            Department of Mathematics
                            Kumamoto University
                            Kumamoto, Japan.

   Field of Study   : Partial Differential Equations

   Title of Dissertation : A Study on Doubly Nonlinear Degenerate Parabolic Equations

                            of Fast Diffusion Type.

   Supervisor Name   : Professor Masashi Misawa, Ph.D.

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   2009   : Master of Science in Pure Mathematics

                            University of Dhaka, Bangladesh.

   Title of Dissertation : A New Approach to Riemannian and Local Geometries.

   Result   : First Class 2nd in order of merit.

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2007   : B. Sc. Honors in Mathematics

       University of Dhaka, Bangladesh.

Result   : First Class 2nd in order of merit.

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2000   : H. S. C. (Science Group)

       Juranpur Adarsha College, Cumilla Board.

Result   : First Division.

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1998   : S. S. C. (Science Group)

       Sachar High School, Cumilla Board.

Result   : *First Division.

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3. Employment Information

9 October, 2013-Continue : Assistant Professor in Mathematics
          Jagannath University, Dhaka, Bangladesh.

2 May, 2011-8 October, 2013 : Lecturer in Mathematics
          Jagannath University, Dhaka, Bangladesh.

16 March 2010-1 May, 2011 : Lecturer in Mathematics
          Department of Arts & Science.
          Ahsanullah University of Science & Technology
          Dhaka, Bangladesh.

28 January, 2010-15 March 2010 : Lecturer in Mathematics
          Department of Civil Engineering.
          Presidency University
          Dhaka, Bangladesh.

4. Awards and Recognition

- Monbukagakusho (MEXT) Ph. D. Fellowship funded by the Ministry of Education, Culture, Sports, Science and Technology, Japan (2017-2020).
- Certificate of Excellence and Financial Grant by Eastern Bank Limited (EBL) based on B. Sc. Hon's result.
- Foundation Training for University Teachers, Graduate Training Institute (GTI), Bangladesh Agricultural University (BAU), Mymensingh, Bangladesh.
- Professor Under Officer (PUO), BNCC, Jagannath University Contingent.

5. Papers Published in International Journal

1. Masashi Misawa, Kenta Nakamura, Md. Abu Hanif Sarkar, A finite time extinction profile and optimal decay for a fast diffusive doubly nonlinear equation, Submitted to Nonlinear Differential Equations and Applications (NODEA), Springer journal.

2. Md. Abu Hanif Sarkar, Finite extinction for a doubly nonlinear parabolic equation of fast diffusion type, Arab Journal of Mathematical Sciences (AJMS), 26(1), 2021, 1-19.

3. Khadiza Begum, Ahammad Hossain, Farhana Mamtaz, Nusrat Sharmin, Abu Hanif Sarkar, Naturally convective casson fluid flow in presence of nano particle through porous plate with thermal radiation and MHD effects, IOSR Journal of Mechanical and Civil Engineering,14(3), 2017, 63-70.

4. Ahammad Hossain, Khadiza Begum, Farhana Mamtaz, Abu Hanif Sarkar, Micropolar Fluid flow with Nano Particle Through Porous plate with MHD Effects, IOSR Journal of Mathematics, 13(2), 2017, 65-73.

5. Md. Abu Hanif Sarkar, Md. Showkat Ali, Symplectic Connections and Contact

   Geometry, Annals of Pure and Applied Mathematics, 6(1), 2014, 57-69.

6. Md. Showkat Ali, and Md. Abu Hanif Sarkar-Invariants and Flatness Criteria on an Almost Lagrangian Supermanifolds, Journal of Physical Sciences, Vol. 16, 2012, 65-73.

7. K.E. Hoque, Muhammad Sajjad Hossain, M.M. Billah, L.Nowsher Ali, Md. Abu Hanif Sarkar, and M.A. Rob -Effects of Steadiness of Radial stream using Radial Charismatic field, Canadian Journal on Science and Engineering Mathematics, 2(2), June-2011.

8. Papers Published in National Journal

1. M. S. Alam, S. M. Chapal Hossain, M. U. Ahammad, and M. A.Hanif Sarkar-Dufour-Soret Effects on Radiative Free Convective Flow Along an Inclined Permeable Stretching Sheet Embedded in a Porous Medium with Chemical Reaction, Jagannath University Journal of Science, 2(1), 2013, 39-54.

2. Md. Showkat Ali, and Md. Abu Hanif Sarkar-Submanifolds of Riemannian manifolds is totally geodesic in Tangent bundle, The CDR Journal, University of Dhaka, Vol. 5, June-2013, 65-73.

3. Md. Showkat Ali, M.G.M. Talukder, M.R. Khan and Md. Abu Hanif Sarkar -Bianchi Identities on Distinguished Super connections, Dhaka University Journal of Science, 59(2), July-2011, 235-239.

4. Md. Showkat Ali, and Md. Abu Hanif Sarkar-Serret-Frenet Equationsi in Minkowski Space, Dhaka University Journal of Science, 61(1), July-2013, 87-92.

5. Md. Showkat Ali, Md. Mirazul islam, Farzana Nasrin, Md. Abu Hanif Sarkar and Tanzia Zerin Khan- Connections on Bundles, Dhaka University Journal of Science.

6. Md. Abu Hanif Sarkar and Md. Showkat Ali-Local and Global Geometries on Bundles, Dhaka University Journal of Science, 58(2), 2010, 313-317.

9. Membership of Scholarly Societies

Life Member   Bangladesh Mathematical Society.
Life Member   Mathematics Alumni, University of Dhaka.

10. Computer Knowledge

- MS Office, Latex(TexShop), COMSOL Multiphysics, MATHEMATICA, FORTRAN and MATLAB, FLUENT.

11. References

1. Masashi Misawa, Ph. D.   **2. Md. Showkat Ali, Ph. D.**
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Department of Mathematics   Department of Applied Mathematics
Faculty of Science   Faculty of Science
Kumamoto University   University of Dhaka
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