FACULTY MEMBER ACADEMIC PROFILE

1. **Name of the Faculty Member:** **DR. KALIDAS DAS**
2. **Designation:** Associated Professor in Mathematics, W.B.E.S.
3. **Present Affiliation:** Krishnagar Government College
4. **Qualification:** M. Sc (K.U.), Ph. D. (K.U.)
5. **Specialization:** Solid Mechanics.
6. **E-mail address:** kd.kgec@gmail.com
7. **Date of Joining in W.B.E.S.:** 07. 08. 2001
8. **Date of Joining in this College:** 18. 09. 2018
9. **Total Teaching experience in College Level:** 23 years
10. **Research Interest:** Fluid Mechanics (M.H.D., C.F.D.), Nanofluid, Bio-Mechanics
11. **Title of Thesis (Ph. D) with year:** "Studies on some problems in Magnetohydrodynamics," 1997
12. **Research Guidance (Ph.D):** No. of student enrolled-10 (Degree awarded: 09)

Sl. No.	Candidate's Name	Date of Registration with Index No.	Title of Thesis	Name of University	Remarks
1.	Dr. Subhrojyoti Debnath	11.08.2006 Ph.D./Math./SD/ 2013	Some Mathematical Models on Biofluid Mechanics	University of Kalyani, Kalyani, India	Awarded on 12.06.13
2.	Dr. Subrata Jana	22.10.2011 Index no. 198/11/Maths/21	On Some mathematical Problems in Magneto hydrodynamics with Applications in Engineering	Jadavpur University, Kolkata, India	Awarded on 13.05.15
3.	Dr. Nilangshu Acharya	27.12.2013 Index no. 229/13/Maths/22	Some aspects on the motion of electrically conducting fluid	Jadavpur University, Kolkata, India	Awarded on 22.07.16
4.	Dr. Pinaki Ranjan Duari	23.09.2013 Index no. 180/13/Maths/22	Some mathematical models on nanofluid flow	Jadavpur University, Kolkata, India	Awarded on 25.11.16

5.	Dr. Tanmoy Chakraborty	16.10.2015 Index no. 209/15/Maths/24	Some aspects on nanofluid flows	Jadavpur University, Kolkata, India	Awarded on 09.04.19
6	Md. Tausif Sk	29.06.16 Index no. 118/16/Maths/24	Numerical Simulation of Conducting Nanofluid Flow	Jadavpur University, Kolkata, India	Awarded on 17.12.20
7	Shri Nilankush Acharya	21.06.16 Index no. 116/16/Maths/24	On Boundary Layer Flow of Conducting Nanofluid	Jadavpur University, Kolkata, India	Awarded on 19.12.20
8	Sri Amit Sarkar	18.04.2016 Index no. 44/16/Maths/24	Aspects on Boundary Layer Flow of Electrically Conducting Nanofluid	Jadavpur University, Kolkata, India	Awarded on 12.05.22
9	Shri Shib Sanakr Giri	26.04.17 Index no. 11/17/Maths/25	A Study capturing the Features of Magnetohydrodynamic Nanofluid Flow	Jadavpur University, Kolkata, India	Awarded on 16.05.22
10	Shri Bikash Sutradhar	06.05.24 Index no. 201/22/Maths/28	Features of Nanofluid Flow: Mathematical Modelling Sketch-out	Jadavpur University, Kolkata, India	Continue

13. Research Project : Completed-01

Title of the Project: Lie group analysis of nanofluid flow over a stretching surface in presence of magnetic field, Funding Agency: UGC (Minor research project), Period: 2 years (2015-17), Grant/Amount Mobilized: Rs. 2,70,000.

14. List of Publications:

A. Published Papers in Journals:

1. D. Gorai, P. R. Duari & K. Das, Influence of variable characteristic of the porous medium on unsteady nanofluid flow with melting heat transference, Numerical Heat Transfer, Part A: Applications **(Taylor & Francis)**, doi.org/10.1080/10407782.2023.2191872, **I.F.-2.569 (SCIE)**

2. P.R.Duari & K.Das, Computational outline on heat transfer analysis and entropy generation in hydromagnetic squeezing slip flow of hybrid nanofluid, Multidiscipline Modeling in Materials and Structures **(Emerald Publishing Limited)**, Accepted, **I.F.- 0.59 (SCIE).**

3. P.R.Duari & K.Das, MHD radiating flow in a Hybrid Solution of C2H6O2-H2O to disperse Ag-Al2O3 Hybrid Nanoparticles taking into account the effects of Nanoparticle shapes, Indian Journal of Physics, **(Springer), I.F.-2.0 (SCI)**

4. K.Das & P.R.Duari, Effects of nanoparticle shape factor on radiative ternary hybrid nanofluid flow over a wedge in presence of induced magnetic field, Multidiscipline Modeling in Materials and Structures **(Emerald Publishing Limited**), doi: 10.1108/MMMS-11-2023-0373**, I.F.- 0.59 (SCIE).**

5. K. Das, B. Sutradhar & P. K. Kundu, Impact of nonlinear radiation on an unsteady magneto hybrid nanofluid flow over an upward/downward rotating disk, Numerical Heat Transfer, Part A: Applications (**Taylor & Francis**), 85 (16), 2664-2681 (2024), **I.F.-2.569 (SCIE)**

6. K. Das, B. Sutradhar & P. K. Kundu, Framing the effects of multiple slips on squeezing flow of chemical reacting hybrid nanofluid between two parallel discs, Journal of Nanofluids, USA (**American Scientific Publishers)** Accepted**, I.F.-1.739 (ESCI)**

7. P. R. Duari & K. Das, Active- passive controls on magneto CNTs nanofluid flow over a wavy rotating disc, International Journal of Modelling and Simulation **(Taylor & Francis)**, doi: 10.1080/02286203.2023.2249644, **I.F.-3.1 (SCIE)**

8. A.Sarkar & K. Das, Magneto hybrid nanofluid flow with activation energy and chemical reaction through an impermeable stretching elastic cylinder, International Journal of Modelling and Simulation (Taylor & Francis), doi.org/10.1080/02286203.2023.2296264, **I.F.-3.1 (SCIE)**

9. S.S.Giri, N. Acharya, K. Das, Exploration of Hall current effect and multiple convections in a Darcy Forchheimer flow of hybrid nanofluid over rotating permeable disk: A Stefan blowing approach; International Journal of Ambient Energy **(Taylor & Francis),** 45 (1), 1-13, 2024, **I.F.-2.326 (SCI)**

10. N. Acharya & K. Das, Three-dimensional rotating flow of Cu–Al2O3/ kerosene oil hybrid nanofluid in presence of activation energy and thermal radiation, Numerical Heat Transfer, Part A: Applications **(Taylor & Francis),** 84 (6), 586-603, 2023, **I.F.-2.569 (SCIE)**

11. K.Das, R.P. Sharma, D. Gorai, Squeezing flow of chemical reacting hybrid nanofluid between two analogous disks with Activation energy and magnetic field, Journal of Nanofluids, **USA (American Scientific Publishers)** 12(2), 388–397 (2023), **I.F.-1.739 (ESCI)**

12. Md T. Sk, K. Das & P. K. Kundu, Electrical magneto hydrodynamic flow of graphene nanoplatelet-platinum/water hybrid nanofluid with entropy generation, International Journal of Ambient Energy **(Taylor & Francis),** 43(1), 6261-6272 (2022), **I.F.-2.326 (SCI)**

13. R.P. Sharma, K.Das, D. Gorai, Impact of multifarious slips on radiating nanofluid flow containing ZrO_2 nanoparticles, International Journal of Modern Physics B **(World Scientific Publishers)** Accepted, **I.F.-1.404 (SCI)**

14. K. Das, N. Acharya, Squeezing flow of Cu-TiO2 / H2O hybrid nanofluid with activation energy and chemical reaction in a Darcy-Forchheimer porous medium, International Journal of Ambient Energy **(Taylor & Francis)**, 2022, 43(1), 8816-8829, **ISSN: 2162-8246, I.F.-2.326 (SCIE)**

15. R.P. Sharma, D. Gorai, K. Das, Comparative study on hybrid nanofluid flow of Ag–CuO/H2O over a curved stretching surface with Soret and Dufour effects, Heat Transfer **(Wiley Periodicals LLC) ,** 2022;51:1-19, **(ISSN:2688-4542, ESCI)**

16. S.S.Giri, K.Das, P. K. Kundu, Computational analysis of thermal and mass transmit in a hydromagnetic hybrid nanofluid flow over a slippery curved surface, International Journal of Ambient Energy **(Taylor & Francis),** 43(1), 6062-6070 (2022), **I.F.-2.326 (SCI)**

17. K. Das, N. Acharya, P. K. Kundu, P. R. Duari, Magneto Chemically Reacting Micropolar Nanofluid Flow in Existence of Heat Source/Sink, Journal of Nanofluids, **USA (American Scientific Publishers)** 11(4), 539–547 (2022), **I.F.-1.739 (ESCI)**

18. Md T. Sk, K. Das & P. K. Kundu, Unsteady nanofluid flow between two spinning expanding disks with continuous vertical motion under the influence of modified Hall effect, Heat Transfer **(Wiley Periodicals LLC) ,** 2022;51:4286–4305, **(ISSN:2688-4542, ESCI)**

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20. K. Das, P. K. Kundu, and Md T. Sk, Magnetophoretic Effect on the Nanofluid Flow Over Decelerating Spinning Sphere with the Presence of Induced Magnetic Field, Journal of Nanofluids, **USA (American Scientific Publishers)** 11(1), 135–141 (2022) **, I.F.-1.739 (ESCI)**

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32. F. Mabood, K. Das, Outlining the impact of melting on MHD Casson fluid flow past a stretching sheet in a porous medium with radiation, Heliyon, **(Elsevier),** 2019, 5, 1-17, (**ISSN: 2405-8440, ESCI)**

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39. T. Chakraborty, K. Das, P. K. Kundu , Framing the impact of external magnetic field on Bioconvection of a nanofluid flow containing gyrotactic microorganisms with convective boundary conditions, Alexandria Engineering Journal**,** **Egypt (Elsevier),** 2018, 57, 61-71. **I.F.-0.23 (ESCI)**

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42. P. K. Kundu, T. Chakraborty, K. Das, Framing the Cattaneo-Christov heat flux phenomena on CNT based Maxwell nanofluid along stretching sheet with multiple slips, The Arabian Journal for Science and Engineering, **Saudi Arabia (Springer)**, 2018, 43 (3), 1177-1188. **I.F.-1.092 (SCIE)**

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44. K. Das, T. Chakraborty, P. K. Kundu , Effect of Magnetic Field on Oldroyd-B type nanofluid flow over a permeable stretching surface, Propulsion and Power Research, **China (Elsevier),** 2018, 7(3), 238–246, **ISSN: 2212-540X.**

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134. K.Das and R. Das, Effect of Radiation and Transpirations on Free Convection and Mass Transfer Flow Through a Porous Medium of a Chemically Reacting MHD Flow, Jour. of Ind. Acad. Math. **India** 2010, 32(2), 405-419, **ISSN 0970-5120**
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139. K.Das and G.C.Saha, Analysis on Relative Coefficient of Viscosity of Blood Through Narrow Vessel, Antarctica Journal of Mathematics, **India,** 2009, 6(2),113-129, **ISSN 0972-8643**
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144. K.Das , Heat transfer in visco elastic conducting fluid over an infinite flat surface, Indian Journal of Theoretical Physics, **India,** *2006*, 54(4), 279-288, **ISSN 0019-5693**
145. D.C.Sanyal, K.Das and S.Debnath, Effect of magnetic field on pulsatile blood flow through an inclined circular tube with periodic body acceleration, Journal of Physical Sciences, ***India***, 2007, 11(1), 43-56**, ISSN 0972-8791**
146. K.Das and D.C.Sanyal, Stratified convective flow of a conducting fluid through an inclined porous channel, Acta Ciencia Indica, **India,** 2006**,** 32(3), 1167-1172, **ISSN 0970-0455**
147. K.Das and D.C.Sanyal, Hydromagnetic unsteady free convection flow past a hot vertical plate, The Mathematics Education, **India,** 1996**,** 30(4), 227-236, **ISSN 0047-6269**

148. K.Das and D.C.Sanyal, Slow flow of a conducting fluid past a non conducting porous sphere with variable permeability, Czechoslovakia Journal of Physics, **Czechoslovakia (Springer)**, 1994, 44(8), 737-743, **I. F.-0.42**

149. K.Das and D.C.Sanyal. Hydromagnetic convecting slip flow through a horizontal channel, Indian Journal of Theoretical Physics, **India,** 1994, 42(1),63-72**, ISSN 0019-5693**

B. Published Books:

Sl. No.	Title of the Book	Type of the Book & Authorship	Publisher & ISSN/ISBN No.	No. of co-authors
1.	A Text Book of Numerical Analysis	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-65-3**	One
2.	Hydrostatics	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-33-2**	One
3.	Linear Programming and Game Theory	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-73-8**	One
4.	Numerical Methods (Theoretical and Practical)	Text Book Sole author	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-46-2**	Nil
5.	Engineering Mathematics Vol. I-IV	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-16-5**	One
6.	B.C.A Mathematics Vol. I-IV	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-34-9**	One
7.	B.B.A Mathematics Vol. I, II	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-07-3**	One
8.	Discrete Mathematics	Text Book Joint Authorship	U. N. Dhur and Sons Pvt. Ltd., Kolkata; **978-93-80673-74-5**	One

C. Chapter Contributed in Edited Books:

1. K.Das: **Nanotechnology: Properties of Nanomaterials**, Chapter Title: "A Mathematical Model on Nanofluid Flow and Heat Transfer Characteristics," Vol. 3, Chapter-8, Page. nos. 205-221, Publisher: **Studium Press LLC, Houston**, TX 77072-USA, 1-62699-000-X
2. K. Das & Tausif Sk: **Advanced Materials-Based Fluids for Thermal Systems**, Chapter Title: " Entropy optimization of magnetic nanofluid flow over a wedge under the influence of magnetophoresis," Chapter-9, Page. nos. 209-232, **Publisher: Elsevier**, ISBN: 978-0-443-21576-6
   doi.org/10.1016/B978-0-443-21576-6.00011-X
3. K. Das, S. S. Giri & N. Acharya: **Advanced Materials-Based Fluids for Thermal Systems**, Chapter Title: " Non-axisymmetric homann stagnation-point flow of nanofluid toward a flat surface in the presence of nanoparticle diameter and solid-liquid interfacial layer," Chapter-10, Page. nos. 233-254, **Publisher: Elsevier**, ISBN: 978-0-443-21576-6, doi.org/10.1016/B978-0-443-21576-6.00004-2
4. N. Acharya & K. Das: **Advanced Materials-Based Fluids for Thermal Systems**, Chapter Title: " On the hydrothermal performance of radiative Ag-MgO-water hybrid nanofluid over a slippery revolving disk in the presence of highly oscillating magnetic field," Chapter-11, Page. nos. 255-288, **Publisher: Elsevier**, ISBN: 978-0-443-21576-6, doi.org/10.1016/B978-0-443-21576-6.00012-1
5. P. R. Duaria, K. Das: **Nanofluids Technology for Thermal Sciences and Engineering: Research, Development, and Applications,** Chapter Title "Magnetohydrodynamic Flow of Ternary Hybrid Nanofluids Over a Wedge: Influence of Nanoparticle Shape Factor in Solar Energy Applications," Chapter-05, doi.org/10.1201/9781003494454, **Publisher: CRC Press (Taylor & Francis)**

15. Membership of Learned Societies / Editorial Boards

1. Life Member of Calcutta Mathematical Society
2. Member of ISI, Kolkata
3. Member of Proceedings of The Mathematical Society, Banaras Hindu University
4. Member of the Editorial Board of Reason-A Technical Journal
5. Member of the Editorial Board of Conscientia-An Academic Journal

16. Patents: Nil

17. Awards/Recognition:

I. **Siksha Ratna Award 2019**, Department of Higher Education, Government of West Bengal

II. Recognised as **World's Top 2% Scientists** by **Stanford University, California, USA** in 2020 to 2023.

18. **Other notable activities:** Reviewer of 54 peer-reviewed National / International Journals

19. **Participation in Seminars/Symposia/Conferences/Workshops:**

A. Conferences / Seminars

1. **Participated** in the **International conference** on " Frontier of Mathematics and Applications," organized by Dept. of Mathematics, University of Burdwan, 2008
2. **Presented a paper** entitled **"** A Mathematical Model on Nanofluid Flow and Heat Transfer Characteristics, **"** in the **International Seminar** on **'**The 12th International conference of Ten. Soc. On diff gre. And its appl. and infor. Besides,' organized by Dept. of pure Mathematics, University of Calcutta, 2012
3. **Presented a paper** entitled **"** Effects of magnetic field and slip velocity on nanofluid flow and heat transfer characteristics, **"** in the **National Seminar** on **'**National conference on emerging trends in physics of fluids and solids,' organized by Dept. of Mathematics, Jadavpur University, 2013
4. **Presented a paper** entitled **"** Effects of magnetic field on an unsteady mixed convection flow of nanofluids containing spherical and cylindrical nanoparticles, **"** in the **National Seminar** on **'**National conference on emerging trends in physics of fluids and solids,' organized by Dept. of Mathematics, Jadavpur University, 2014
5. **Presented a paper** entitled **"** MHD boundary layer flow of a nanofluid over a convectively heated stretching sheet, **"** in the **National Seminar** on **'**National conference on emerging trends in physics of fluids and solids,' organized by Dept. of Mathematics, Jadavpur University, 2015

B. Invited Lectures and Chairmanship

1. **Invited Lecture** on "An over view of Nanofluid flow and its applications, " and **Chaired** a Session in the National Seminar on 'Recent trends in mathematical analysis and modeling, 'organized by The mathematical society, Banaras Hindu University& Dept. of Applied Mathematics, BIT, Patna, 2013

2. **Chaired a Technical Session** in the UGC-CPE assisted National Seminar on " Frontiers in Science and Technology Towards National Development " organized by A.B.N.Seal College, Cooch Behar, 2016
3. **Chaired a Technical Session** on Plenary Lecture – VII and Oral Presentation in the Interdisciplinary (Science) National Seminar on " Science and Mankind – A Better Tomorrow " organized by A.B.N.Seal College, Cooch Behar, 2018

20. Faculty Development Programmes:

A. Participation in OP/RC

1. Participated in UGC Sponsored Orientation Programme, organized by UGC-Academic Staff College Jadavpur University from 5th July, 2004-31st July, 2004
2. Participated in UGC Sponsored Refresher Course, organized by Dept. of CSE, Phys. and Maths., University of Kalyani from 8th January , 2008-28th January, 2008
3. Participated in UGC Sponsored Refresher Course, organized by UGC-Academic Staff College Jadavpur University from 16th February, 2009 – 7th March, 2009
4. Participated in UGC Sponsored Refresher Course, organized by UGC-Academic Staff College, University of Burdwan, from 26th November , 2014– 16th December, 2014

B. Participation in Teaching-Learning-Evaluation Technology Programmes

1. Participated in Pedagogy and Teaching Methodology Training Programme, organized by Center for Personal Transformation, IIT Kharagpur and Kalyani. Govt. Engg. College from 17th March, 2009 – 30th March, 2009