

CURRICULUM VITAE



DR. SUJAN SINHA

PERSONAL INFORMATION

Name : Dr. Sujan Sinha.
Father's Name : Paran Sena Sinha.
Mother's Name : Mira Sinha.
Date of Birth : 17th March, 1986.
Sex : Male.
Marital Status : Married.
Nationality : Indian.
Religion : Hinduism.

CONTACT DETAILS:

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PERMANENT ADDRESS:

Dr. Sujan Sinha
C/O: Mr. Paran Sena Sinha
Vill: Rajib Nagar, Near T.V.Tower
P.O: Indrapur
Dist: Kamrup (M)
State: Assam
Pin: 781032

PRESENT ADDRESS:

Dr. Sujan Sinha
C/O: Mr. Paran Sena Sinha
Vill: Rajib Nagar, Near T.V.Tower
P.O: Indrapur
Dist: Kamrup (M)
State: Assam
Pin: 781032

EDUCATIONAL QUALIFICATION:

S.N.	Exam. Passed	Year of passing	Board/ University	Subjects	Percentage of marks	Division
1	HSLC	2002	SEBA	Eng, Ass, G.Maths,GSc, SSt, H4	69.16	I
2	HS	2004	AHSEC	Eng, Ass, Ph, Ch, Stat,Math	56.40	II
3	B.Sc.	2008	G.U.	Mathematics (Physics, Statistics)	57.90	II
4	M.Sc.	2010	G.U.	Mathematics	69.00	I
5	Ph. D	2014	G.U.	Mathematics	8.5 CGPA in Course Work	I

LIST OF PUBLICATION:

Sl. No.	Title of the paper	Name of the authors	Published in
1	Dufour Effect On A Transient MHD Flow Past A Uniformly Moving Porous Plate With Heat Sink	N.Ahmed, S.Sinha & S.Talukdar	Advances and Applications in Fluid Mechanics (Volume 13, Number 1, 2013, pp: 1-24) ISSN: 0973-4686
2	Soret Effect On An Oscillatory MHD Mixed Convective Mass Transfer Flow Past An Infinite Vertical Porous Plate With Variable Suction	N.Ahmed & S.Sinha	“Applied Mathematical Sciences” (Volume 7, Number 51, 2013, pp: 2515-2524) ISSN: 1314-7552
3	Transient MHD Mass Transfer Flow Past An Impulsively Started Vertical Plate With Ramped Temperature, Concentration, Thermal Diffusion And Radiation	N.Ahmed, S.talukdar & S.Sinha	“International Journal of Research in Mathematics and Computation” (Vol.2, No.2, 2014, pp: 19-32) ISSN: 2348-1528
4	Effects Of Chemical Reaction On A Transient Mass Transfer Flow Past An Impulsively Started Vertical Plate With Ramped Temperature, Concentration, Thermal Diffusion And Radiation	N.Ahmed & S.Sinha	“Journal of Energy, Heat and Mass Transfer” (Vol. 35, 2013, pp: 252-273) ISSN: 0970-9991
5	MHD Effect On An Oscillatory Mixed Convective Flow Past An Infinite Vertical Porous Plate With Radiation	N.Ahmed & S.Sinha	“Open Journal of Fluid Dynamics” (Vol. 3, No. 4, 2013, pp: 271-277) ISSN: 2165-3852.

6	MHD Laminar Boundary Flow with Oscillatory Boundary Condition and Mass Transfer with Soret and Radiation Effect	N.Ahmed & S.Sinha	“JMI International Journal of Mathematical Science” (Vol. 4, No. 2, 2012, pp: 1-9) ISSN: 0976-5913.
7	MHD Effect on Unsteady Flow past an Accelerated Vertical Plate	N.Ahmed & S.Sinha	International Journal of Physics and Mathematical Sciences (Vol. 4, No. 4, 2014, pp: 56-70) ISSN: 2277-2111.
8	Effect of chemical reaction on an unsteady MHD free convective flow past a porous plate with ramped temperature	S.Sinha	“Proceedings of the International Conference on Frontiers in Mathematics, 26-28 March, 2015” ISBN: 978-81-928118-9-5
9	Style and Strategies Practiced in Mathematics Class of Secondary Schools of Nagaland	S. Ratna, S.Sinha & P. Chakrabarty	“International Journal of Advanced Research in Education and Technology” (Vol. 3, No. 3, 2016, pp: 72-78) ISSN: 2394-6814.
10	Effect of Socio-economic status on performance of Mathematics among students of secondary schools of Guwahati city	G.C. Das & S.Sinha	“IOSR Journal of Mathematics” (Vol. 13, No. 1, 2017, pp: 26-33) ISSN: 2278-5728.
11	Unsteady MHD Buoyancy Induced flow past an accelerated vertical plate with chemical reaction	S.Sinha	“International Journal of Engineering Science and Technology (IJEST)” (Vol. 10, No. 02S, 2018, pp: 185-192) ISSN: 0975-5462.
12	Influence of Socio-economic status of parents on performance of Mathematics among the upper primary students of Guwahati metro	D. bhattacharya S. Sinha & G.C.Sarmah	“International Journal of Latest Engineering and Management Research” (IJEST) (Vol. 3, No. 4, 2018, pp: 54-64) ISSN: 2455-4847.
13	Unsteady MHD Convective Heat and Mass Transfer Flow Past a semi-infinite vertical porous Plate with Chemical Reaction	S. Sinha & Maushmi Mahanta	“AJANTA” (Vol. 8, No. 2, 2019, pp: 200-214) ISSN: 2277-5730
14	Effect of Radiation on an oscillatory MHD Mixed Convective Mass Transfer Flow Past an Infinite Vertical Porous Plate with variable Suction	S. Sinha & Manoj Kr. Sarma	“AJANTA” (Vol. 8, No. 2, 2019, pp: 215-225) ISSN: 2277-5730
15	A study on the students’ perception in Mathematics in relation to Gender of the students and medium of school	D. bhattacharya S. Sinha & G.C.Sarmah	“ Advance research Journal of Multidisciplinary Discoveries (Vol. 1, No. 1, 2019, pp: 11-15) ISSN: 2456-1045.
16	Chemical Impact on Heat and Mass Transfer Flow in Presence of Radiation and Rotation with Variable Temperature and Concentration	S. Sinha & Manoj Kr. Sarma	”International Journal of Recent Technology and Engineering (IJRTE)” (Vol. 8, No. 4, 2019, pp: 1966-1970) ISSN: 2277-3878
17	Effect of Radiation and Hall Current on an MHD Transient Heat and Mass Transfer Flow in Presence of Rotation	S. Sinha & Manoj Kr. Sarma	“International Journal of Innovative Technology and Exploring Engineering (IJITEE)” (Vol. 9, No. 1, 2019, pp: 2501-2504) ISSN: 2278-3075
18	Thermal Diffusion (Soret Effect) on an Unsteady MHD Mixed Convective Heat and Mass Transfer Flow through	S. Sinha & Maushmi Mahanta	“Science and Technology” Journal (Vol. 7, No. 1, 2020, pp: 69-77)

	Vertical Porous Medium with Chemical Reaction		ISSN: 2321-3388.
19	Effect of Stretching parameter in a non-linear MHD close to Stagnation point	S. Sinha & Manoj Kr. Sarma	“J. Math. Comput. Sci.” (Vol. 10, No. 6, 2020, pp: 2249-2260) ISSN: 1927-5307
20	Homotopy Perturbation method for MHD boundary layer flow over a moving vertical plate in presence of heat and mass transfer	S. Sinha, Manoj Kr. Sarma & Bandita Das	“South East Asian J. of Mathematical Sciences” (Vol. 16, No. 3, 2020, pp: 269-282) ISSN: 0972-7752
21	Consequence of Chemical reaction on an unsteady MHD radiative flow past an erect porous plate with Diffusion-thermo (Dufour Effect)	S. Sinha & Maushmi Mahanta	“Journal of Rajasthan Academy of Physical Sciences” (Vol. 19, No. 3&4, 2020, pp: 191-208) ISSN: 0972-6306
22	Free convective MHD flow past a vertical plate through a porous medium with ramped wall temperature and concentration	S. Sinha & Maushmi Mahanta	“J. Math. Comput. Sci.” (Vol. 11, No.2, 2021, pp: 1206-1222) ISSN: 0972-6306
23	Homotopy Perturbation Analysis in an energy transit problem closed to a Stretching Surface	S. Sinha & Manoj Kr. Sarma	“Turkish Journal of Computer and Mathematics Education” (Vol. 12, No.6, 2021, pp: 289-295) ISSN: 1309-4653
24	Influence of thermal diffusion on an unsteady MHD chemically reactive flow past a vertical porous plate with ramped temperature	S. Sinha & Kumud Borgohain	“The Journal of Oriental Research Madras” (Vol. 42, No.6, 2021, pp: 9-16) ISSN: 0022-3301
25	Homotopy Perturbation Method over a non-linear Stretching Sheet on the solution of MHD Flow problem	S. Sinha, Maushmi Mahanta & Manoj Kr. Sarma	“International Journal of Mechanical Engineering” (Vol. 6, No.3, 2021, pp: 3762-3765) ISSN: 0974-5823
26	Analysis of Stretching and Magnetic parameter in a non-linear MHD flow close to a stagnation point	S. Sinha, Kumud Borgohain & Manoj Kr. Sarma	“Stochastic Modeling and Applications” (Vol. 26, No.3, 2022, pp: 1237 – 1243) ISSN: 0972-3641
27	Consequence of rotation on a radiative fluid flow past a porous plate in presence of Dufour number	S. Sinha & Kumud Borgohain	“Neuroquantology” (Vol. 20, No.12, 2022, pp: 2295 – 2306) ISSN: 1303-5150
28	Influence of Thermal Diffusion in a Non-Linear MHD Flow Close to a Stagnation Point	S. Sinha & Kumud Chandra Nath	“Mathematical Statistician and Engineering Applications” (Vol. 71, No.4, 2022, pp: 5464 – 5474) ISSN: 2094-0343
29	Effects of variable EFFECTS OF VARIABLE VISCOSITY AND THERMAL CONDUCTIVITY ON AN MHD HEAT AND MASS TRANSFER FLOW PAST A STRETCHING SHEET	S. Sinha, Kumud Borgohain & Jadav Konch	“Advance Engineering Science” (Vol. 54, No.2, 2022, pp: 7023 – 7029) ISSN: 2096-3246
30	Soret effect on an unsteady	S. Sinha &	“European Chemical Bulletin”

	MHD heat and mass transfer flow with consumption of chemical species	Kumud Borgohain	(Vol. 12, No.8, 2023, pp: 1814 – 1821) ISSN: 2063-5306
31	Influence of Hall current and Chemical reaction on MHD unsteady Mass and Heat transfer flow under rotation	S. Sinha & Maushmi Mahanta	“Communication in Mathematics and Applications” (Vol. 14, No.2, 2023, pp: 667 – 674) ISSN: 0976-5905

LIST OF BOOK CHAPTER PUBLICATION:

- **S. Sinha (2015):** *Effect of chemical reaction on an unsteady MHD free convective flow past a porous plate with ramped temperature*, **“Proceedings of the International Conference on Frontiers in Mathematics, 26-28 March, 2015”**, ISBN: 978-81-928118-9-5
- **S. Sinha (2020):** Consequence of Magnetic field on a shaly flow past an accelerated vertical plate with Sorret effect, **VISTA, Book of Multidisciplinary Studies**, Vol. 1, No. 1, ISBN: 978-81-948413-2-6

LIST OF CONFERENCES PRESENTED

1. 57th Congress of Indian Society of Theoretical Applied Mechanics (ISTAM) (An International Meet) (December 17-20, 2012), organized by Defence Institute of Advanced Technology (Deemed University), Pune.
2. 58th Congress of Indian Society of Theoretical Applied Mechanics (ISTAM) (An International Meet) (December 18-21, 2013), held at Bengal Engineering and Science University, Shibpur, Howrah, West Bengal, India.
3. International Conference on Frontiers in Mathematics (ICFM-2015) (March 26-28, 2015) organized by Department of Mathematics, Gauhati University, Assam, India.
4. 78th Annual Conference of the Indian Mathematical Society (Jan.22-25, 2013) organized by the Department of Mathematics and DST-Centre for Interdisciplinary Mathematical Sciences, Faculty of Science, Banaras Hindu University, Varanasi.
5. National Conference on Pure and Applied Mathematics (NCPAM) (May 9-10, 2013) organized by Department of Mathematics, Royal School of Engineering & Technology, held at Royal Group of Institutions, Guwahati.
6. National Seminar on Recent Trends of Research in Science & Technology (59th Annual Technical Session of Assam Science Society), March 29, 2014, organized

by Assam Science Society, held at Cotton College, Cotton College State University, Guwahati, Assam.

7. UGC Sponsored National Seminar on Recent Trends in Mathematics & its Applications (RTMA) (October 7-8, 2013) organized by Digboi College, Digboi.
8. UGC Sponsored National Seminar on Recent Trends in Mathematics & its Applications (RTMA) (May 26-27, 2014) organized by Department of Mathematics, Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh.
9. National Conference on Advances in Science, Engineering and Technology (Nov. 10-11, 2017) organized by Girijananda Chowdhury Institute of Management and Technology, Tezpur.
10. National Seminar on Mathematics & its Applications in Science, Engineering and Technology (MSASET) (March 25-26, 2019) organized by Department of Mathematics, Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh.
11. International Conference on Recent Advances in Engineering and Science (ICRAES-2020) (January 11-12, 2020) organized by Aligarh Muslim University, Aligarh, India.
12. National Conference on Emerging Trends in Science and Technology (NCETST-20) (March 6-7, 2020) organized by Department of Mathematics, Assam down town University, Guwahati, Assam, India.
13. International Conference on Mathematical Modelling in Applied Sciences (ICMMAS-2020) (June 28-30, 2020) organized by Department of Mathematics, Dibrugarh University, Assam, India.
14. 3rd International Conference on Mathematical Modelling, Applied Analysis And Computation (ICMMAAC-2020) (August 07-09, 2020) organized by Department of Mathematics (Faculty of Science), JECRC University, Jaipur (Raj).

LIST OF CONFERENCES ATTENDED

1. UGC Sponsored National Seminar on Mathematical Sciences and its interdisciplinary approach, (Nov.1-2, 2012) organized by Department of Mathematics, Debraj Roy College, Golaghat.
2. National Seminar on Frontiers in Science and Technology (58th Annual Technical Session of Assam Science Society, 8-9 March, 2013) organized by Assam Science Society.
3. A national conference on “ Approaches of Basic Sciences Towards the Development of Engineering and Technology” (NABSET 2013, 1-2 March, 2013) organised by Donbosco college of Engineering and Technology, a constituent unit of Assam Donbosco University, Airport Road, Azara, Guwahati-781017.

LIST OF WEBINARS ATTENDED

1. International webinar on THE COVID-19 CRISIS AND BUSINESS RESILIENCE (June 5, 2020) organized by Department of BBA, M.COM and IQAC, Gauhati Commerce College, Guwahati, Assam, India.
2. A national webinar on EDUCATION FOR FUTURE (June 6, 2020) organized by FICCI, Guwahati, Assam, India.
3. A national webinar on COVID-19 PANDEMIC AND ITS IMPACT ON THE ENVIRONMENT (June 11, 2020) organized by IQAC, Guwahati College, Guwahati, Assam, India.
4. National webinar on “Cardinality of Sets” (June 12, 2020) organized by Department of Mathematics, USTM, Meghalaya.
5. A national webinar on “Perspectives on the Global Pandemic Scenario: Health, Education and Society” (June 20, 2020) organized by Department of English, CKB Commerce College, Jorhat, Assam.
6. National Seminar on “The Scope of Hospitality & Tourism: International, Domestic and Strategies for Future Business (Post Covid19 Scenario)” (June 21, 2020), organized by the Department of Hospitality & Tourism Management, Assam down town University, Guwahati, Assam, India.
7. National Webinar On “Online Education in Higher Education: Challenges and Prospects” (June 27, 2020), Organised by Teachers’ Unit, Kakojan College,

- Jorhat, Assam In collaboration with Internal Quality Assurance Cell (IQAC), Kakojan College, Jorhat, Assam
8. National Webinar On “Numerical and Scientific Computing” (July 1, 2020), organized by the Department of Mathematics and Statistics, School of Basic Sciences, Manipal University, Jaipur, India
 9. National Webinar on “Online Learning Versus Traditional Classroom Learning: Mechanical and Moral Knowledge During the Era of Covid-19” (July 5, 2020), jointly organised by Department of Education, Mazbat College, Udalguri, Assam & Department of Education, Sapekhati College, Charaideo, Assam
 10. National Webinar on Prime divisors in an arithmetic progression (July 7, 2020), organized by Department of Mathematics, Gurucharan College, Silchar, Assam, India in association with Assam Academy of Mathematics Cachar District Branch and gonitsora.com
 11. National webinar on Recent Trends in Mathematics, (18-19 August, 2021) organized by Department of Mathematics, Cotton University, Guwahati, Assam, India.
 12. International Webinar entitled "Mathematics: Needs and its Scope in Sciences", organized by the Department of Mathematics & Internal Quality Assurance Cell (IQAC), Patharkandi College, Patharkandi, Assam in association with Gonit Sora held during 18 - 19 September 2021.

LIST OF FACULTY DEVELOPMENT PROGRAMMES ATTENDED

1. Virtual Faculty Development Programme on “ Essentials for good research” (27th May-2nd June, 2020), organized by Faculty of Engineering and Technology, Assam down town University, Guwahati, Assam, India.
2. Virtual Faculty Development Initiative (V-FDI) on “ Challenges and opportunities in Post COVID-19 Pandemic Phase: Focusing teaching, research and Innovation” Prime divisors in an arithmetic progression (June 7-13, 2020), organized by Faculty of Pharmaceutical Science, Assam down town University, Guwahati, Assam, India.
3. Two weeks Faculty Development Programme on “Advanced concepts for Developing Moocs” (July 2-17, 2020), organized by Teaching Learning Centre, Ramanujan College, University of Delhi.

4. Seven days Electronic Faculty Development Programme on “ Research methodology-resilience for good research” (July 22-28, 2020), organized by Faculty of Science, Assam down town University, Guwahati, Assam, India.
5. Virtual Faculty Development Programme on “Statistical Methods in Biological Sciences” held at Assam down town University from 29th June – 5th July, 2021.

WORKSHOP

- i) Participated in the workshop “**KIC-TEQIP WORKSHOP**” on **Mathematical Analysis and its Application to Engineering (January 02-04, 2016)** conducted by Department of Mathematics, IIT Guwahati.
- ii) Participated in the workshop “**North-East Summer workshop in analysis and probability (31st May to 4th June, 2016)**”, conducted by Department of Mathematics, Rajib Gandhi University, Arunachal Pradesh, India.

EXTRA CIRRICULAR ACTIVITIES

- i) Appointed as an external expert for Ph. D. Progress Report presentation in University of Science & Technology, Meghalaya, held on 09/03/2015.
- ii) Appointed as an expert for delivering a popular talk on “Mathematics and its Applications in real life” organized by Department of Mathematics, Dhemaji College, Dhemaji, Assam held on 03/03/2020.
- iii) Recorded classes as a part of State digital learning initiative for Diksha portal under SCERT, Assam.
- iv) Appointed as a Translator for the book, “A text book of Mathematics, Class:IX” under Board of Secondary Education (SEBA), Assam.

TEACHING EXPERIENCE

1. Served as an Assistant Professor in the Department of Mathematics in Assam down town University, Guwahati-781026 from 08.09.2014 to 15.08.2013.
2. Served as an Assistant Professor in the Department of Mathematics and Statistics in Gauhati Commerce College, Guwahati-781021 from 15.07.2011 to 30.06.2012 and from 01.08.2013 to 31.12.2013.

3. Served as an Assistant Professor in the Department of Mathematics in Arya Vidyapeeth College, Guwahati- 781006 from 01.08.2012 to 30.06.2013.
4. Served as an Assistant Professor in the Department of Mathematics in S. B. Deorah College, Guwahati-781007 for three months.

RESEARCH EXPERIENCE

More than 11 years of experience in carrying higher level of research in Mathematics. By date, 6 (six) students have obtained Ph. D and 2 (two) students are pursuing research work under my supervision.

LIST OF PHD STUDENTS GUIDED:

- Sandip Ratna (Ph. D. awarded)
- Gunendra Chandra Das (Ph. D. awarded)
- Md. Sahidul Islam (Ph. D. awarded)
- Debojit Bhattacharya (Ph. D. awarded)
- Manoj Kumar Sarma (Ph. D. awarded)
- Mausumi Mahanta (Ph. D. awarded)
- Kumud Borgohain (Thesis submitted)
- Papori Kashyap (Provisional registration)
- Asish Paul (Provisional registration)

RESEARCH PROJECT (COPMLETED)

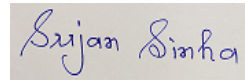
Principal Investigator (PI)	Co-Principal Investigator (Co-PI)	Title of the Project	Period	Sponsoring Agency	Sanctioned Amount	Status
Dr. Sujit Talukdar	Dr. Sujan Sinha	Some MHD convective flows with heat and mass transfer	1 year	TEQIP-III	3,00,000	Completed

CURRENT STATUS

Working as an Assistant Professor in the Department of Mathematics in Girjananda Choudhury University, Hathkhowapara, Guwahati-781017.

Declaration

I hereby declare that the above statements made by me in the application are true, complete and correct to the best of my knowledge and belief.

A rectangular box containing a handwritten signature in blue ink that reads "Sujan Sinha".

(Dr. Sujan Sinha)

Date: 29.02.2024

Place: Guwahati