

CURRICULUM VITAE

Sarifuddin, Ph. D.



Present Position

Assistant Professor,
Department of Mathematics,
Berhampore College,
P.O. – Berhampore,
Dist - Murshidabad, PIN - 742101
West Bengal, India
Email: suind1213@gmail.com

Gender: Male
Nationality: Indian

Educational Qualification:

SL. No.	Degree	year	University	Remarks
1	Ph. D. (Bio-fluid dynamics), Title: Some Problems of Biomechanics of Blood Flow in Arteries	2009	Visva-Bharati, Santiniketan	
2	M. Sc. (Applied Mathematics)	1997	University of Calcutta, Kolkata	1 st Class
3	B. Sc. (Hons. in Mathematics)	1995	University of Calcutta, Kolkata	1 st Class

Work Experience (Full-time):

March, 2017 – Present: Assistant Professor, Department of Mathematics, Berhampore College, Berhampore, West Bengal, India.

March, 2010 – March, 2017: Assistant Professor, Department of Mathematics, Raiganj Surendranath Mahavidyalaya, Raiganj, Uttar Dinajpur, West Bengal.

December, 2000 – March, 2010: Assistant Teacher of Mathematics Saidabad Manindra Chandra Vidyapith.(10+2 School), P.O. – Khagra , Murshidabad, West Bengal.

February, 1999 - December, 2000: Assistant Teacher, Bharatpur Alia High School, P.O. – Bharatpur, Murshidabad, West Bengal.

Awards / Recognition etc.

1. Visited as a visiting researcher at UTM Centre for Industrial and Applied Mathematics (UTM-CIAM), Universiti Teknologi, Malaysia, during March 19, 2014 to April 16, 2014.

2. Joint CSIR-UGC Junior Research Fellowship (JRF) and Eligibility for Lectureship – National Eligibility Test (NET), July, 2001

Major Research Interest:

1. Mathematical Biology
2. Heat and Mass Transfer
3. Blood flow through stenosed artery
4. Computational Fluid Dynamics
5. Drug eluting stent, Drug coated balloon angioplasty etc.

Administrative Experience:

1. Member, Board of Studies (BOS), University of Gour Banga during August, 2015 to March, 2017.
2. Coordinator, workshop on Statistical Method: An Interdisciplinary Approach. Dept. of Mathematics and Botany, Raiganj Surendranath Mahavidyalaya.

Research Experience:

1. Actively engaged in research work with Professors in India and abroad (from 2009 to present).
2. Earlier Research Scholar, Visva Bharati University, Santiniketan, India (from 2003 to 2009).

Refereed Journal Articles:

1. International Journal for Numerical Methods in Fluids, John Wiley & Sons Ltd.
2. International Journal of Heat and Mass Transfer, Elsevier.
3. Computers in Biology and Medicine, Elsevier
4. Modern Applied Science, Canadian Center of Science and Education.
5. Cardiovascular Engineering and Technology (CVET), BMES
6. Journal of Biomedical Science and Engineering(JBISE)
7. Applications and Applied Mathematics (AAM)
8. Propulsion and power research
9. Nonlinear Engineering – Modelling and Application
10. Journal of Brazilian Soc

Research Publications:

Sl. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISBN/ISSN number
18	Effect of Interstitial Fluid Flow on Drug-Coated Balloon Delivery in a Patient-Specific Arterial Vessel with heterogeneous Tissue Composition:	Sarifuddin & Prashanta Kumar Mandal	Cardiovascular Engineering and Technology	2018	1869-408X (Print), 1869-4098 (Online)

	A Model Study				
17	Computational model of drug-coated balloon delivery in a patients specific arterial vessels with heterogeneous tissue composition	Prashanta K. Mandal, Sarifuddin and Vijaya B. Kolachalama,	Cardiovascular Engineering and Technology	2016	1869-408X (print version) 1869-4098 (electronic)
16	Impact of luminal flow on mass transport through coronary arteries: a study relevant to drug-eluting stent	Ramprosad Saha, Sarifuddin , J. C. Misra, Prashanta Kumar Mandal	International Journal of Mathematics and computation	2016	0974-5718 (Print), 0974-570X (Online)
15	An unsteady analysis of arterial drug transport from half-embedded drug-eluting stent	Akash Pradip Mandal, Sarifuddin , Prashanta Kumar Mandal	Applied Mathematics and Computation	2015	0096-3003
14	Effect of Diffusivity on the Transport of Drug Eluted from Drug-Eluting Stent	Sarifuddin , Prashanta Kumar Mandal	International Journal of Applied Computational Mathematics	2015	2349-5103 (Print) 2199-5796 (Online)
13	Numerical simulation of Casson fluid flow through differently shaped arterial stenoses	Sarifuddin , Chakravarty, S., and Mandal, P.K	Journal of Applied Mathematics and Physics (ZAMP)	2014	0044-2275 (Print), 1420-9039 (Online)
12	Simulation of Casson fluid flow and heat transport in differently shaped stenoses	Sarifuddin	Journal of Mechanics in Medicine and Biology	2014	0219-5194 (Print), 1793-6810 (Online)
11	Blood Flow through a Stenosed Artery Bifurcation under The Effects of Gravity	Yan Bin Tan, Norzieha Mustapha and Sarifuddin	AIP Conf. Proc	2014	978-0-7354-1274-3
10	Physiological flow of shear–thinning viscoelastic fluid past an irregular arterial constriction	Sarifuddin , Chakravarty, S., and Mandal, P.K.	Korea-Australia Rheology Journal	2013	1226-119X (print), 2093-7660 (Online)
9	Heat transfer to micropolar fluid flowing through an irregular arterial constriction	Sarifuddin , Chakravarty, S., and Mandal, P.K	International Journal of Heat and Mass transfer	2013	0017-9310
8	Unsteady analysis of viscoelastic blood flow through arterial stenosis	Ikbal, Md. A., Chakravarty, S., Sarifuddin , Mandal	Chemical Engineering Communications	2012	0098-6445 (Print), 1563-5201 (Online)
7	Numerical simulation of mass transfer to micropolar fluid flow past a stenosed artery	Ikbal, Md. A., Chakravarty, S., Sarifuddin , Mandal, P. K	International Journal of Numerical Methods in Fluids	2011	0271-2091 (Print), 1097-0363 (Online)
6	Effect of asymmetry and roughness of stenosis on non-Newtonian flow past an arterial segment	Sarifuddin , Chakravarty, S., and Mandal, P.K	International Journal of Computational Methods	2009	0219-8762 (Print), 1793-6969 (Online)
5	Effect of heat of mass transfer on non-Newtonian flow – links to atherosclerosis	Sarifuddin , Chakravarty, S., and Mandal, P.K	International Journal of Heat and Mass transfer	2009	0017-9310

4	Mass transfer to blood flowing through arterial stenosis	Sarifuddin, Chakravarty, S., Mandal, P.K., and Andersson, H.I	Journal of Applied Mathematics and Physics	2009	0044-2275 (Print), 1420-9039 (Online)
3	Numerical simulation of unsteady generalised Newtonian blood flow through differently shaped distensible arterial stenoses	Sarifuddin, Chakravarty, S., Mandal, P.K., and Layek G.C	Journal of Medical Engineering & Technology	2008	0309-1902 (Print) 1464-522X (Online)
2	Effect of surface irregularities on unsteady pulsatile flow in a compliant artery	Chakravarty, S., Sarifuddin and Mandal, P.K	International Journal of Non-Linear Mechanics,	2005	0020-7462
1	An unsteady flow of two-layered blood stream past a tapered flexible artery under stenotic conditions	Chakravarty, S., Sarifuddin and Mandal, P.K	Computational Method in Applied Mathematics	2004	1609-4840

Articles published in Local / Popular magazine:

1. Sarifuddin, "Archimedes - Ganith, Padhertho-bidya abong Projukti-bidyar Ek Biswaikar Samarnoy", Bigyan Bhabna, published from Berhampore, West Bengal, 1st year, 3rd issue, November – 2005.
2. Sarifuddin, "Arsenic: Ekti Jiban Maran Samashaya", Bigyan Bhabna, published from Berhampore, West Bengal, 2nd year, 2nd issue, November – 2006.
3. Sarifuddin, "Dalton abong Paromanubader 200 bachar", Bigyan Bhabna, published from Berhampore, West Bengal, 3rd year, 1st issue, March – 2009.
4. Sarifuddin, "Leonhard Euler Ganith jogoter ekti biswaikar naam", Bigyan Bhabna, published from Berhampore, West Bengal, 3rd year, 4th issue, December – 2009.
5. Sarifuddin, "Higs Boson (Iswar kana?) kana abhiskarer nepothy", Uttar Reethi, published from Raiganj, West Bengal, Vol. 5, No. 2-3, October, 2015.

Research Collaboration:

1. **Vijaya B. Kolachalama, Ph.D.** Charles Stark Draper Laboratory, 555 Technology Square Cambridge, MA, USA – 02139, Cardiovascular Division, Brigham and Women's Hospital, 75 Francis Street Boston, MA, USA – 02115.
2. **Professor H I Andersson**, Norwegian University of Science and Technology, Trondheim, Norway.
3. **Professor Norsarahaida Amin** and **Dr. Norzieha Mustapha**, UTM Centre for Industrial & Applied Mathematics (UTM-CIAM), Universiti Teknologi Malaysia, 81310 UTM Skudai, Johor, Malaysia.
4. **Professor G. C. Layek**, Department of Mathematics, Burdwan University, Burdwan, West Bengal, India.
5. **Prof. P. K. Mandal** and **Prof. S. Chakravarty**, Visva-Bharati, Santiniketan, West Bengal, India.
6. **Professor J. C. Misra**, Department of Mathematics, Indian Institute of Technology, Kharagpur, India

Workshop / Orientation / Refresher Programmed:

1. Seven days workshop on Statistical Method: An Interdisciplinary Approach. Dept. of Mathematics and Botany, Raiganj Surendranath College, Raiganj, Uttar Dinajpur, W.B. Indaia, during September 5-11, 2012.
2. 28 days UGC Sponsored Orientation Program during 13 September to 10 October, 2012 at the UGC-Academic Staff College, Kumaun University, Nainital, India.
3. 21 days Refresher UGC Sponsored Refresher Course during 18th November to 7th December 2013 in “Mathematical Methods, Technique and Applications”, Jadavpur University, Kolkata.
4. **2nd International Mathematics in Industry Study Group Malaysia** (MISG-2014) held between March 17-21, 2014 at Universiti Teknologi Malaysia, 81310 Johor Bahru, Malaysia.
5. Workshop on Change in Question Pattern, Redistribution of Marks & Introduction to OMR Sheet at UG Level, University of Gour Banga, Malda, West Bengal, on December 18, 2014.
6. Workshop on Know Your CAS, Shree Agrasen Mahavidyalaya, Dalkhola, West Bengal, on February 14, 2015.
7. Workshop on Preparation of SSR (*Self Study Report*) for Assessment and Accreditation, University of Gour Banga, Malda, West Bengal, on 8th August, 2015.
8. Short Term Course on Computer Applications, Aligarh Muslim University, Murshidabad Centre, West Bengal, during February 15, 2016 to February 21, 2016.
9. Global Initiative of Academic Network Course on “**Immersed Boundary Methods for Turbulent Incompressible Flows**” Indian Institute of Technology, Kharagpur, during December 18-22, 2017.
10. 21 days UGC Sponsored Refresher Course during 6th June, 2018 to 28th June, 2018 on “Environmental Science & Disaster Management”, UGC-HRDC, Ranchi University, Ranchi.

Seminar / Conference / Symposia:

1. National Seminar on Analysis of Nonlinear System (ANS – 2011) Dept. of Mathematics, Siksha Bhawan, Visva-bharati, Santiniketan, 26 – 27 March, 2011. **Present a paper title- “On shear-thinning viscoelastic blood flow through differently Shaped constricted arterial segment”.**
2. National Seminar on Mathematics of Nonlinear System (MNS – 2010) Dept. of Mathematics, Siksha Bhawan, Visva-bharati, Santiniketan, 20 - 21 March, 2010.

3. National Seminar on Different Horizons of Lokosanskriti, Raiganj Surendranath Mahavidyalaya, Raiganj, West Bengal, 2 – 3 May, 2015.
4. National Seminar on Women Empowerment: *Miles to go ..*, Shree Agrasen Mahavidyalaya, Dalkhola, West Bengal, 28 – 28 August, 2015.
5. National Seminar on Exploring Advancement in Mathematics (NCEAM -2015), Dept. of Math., University of Gour Banga, Malda, West Bengal, 16 -17 December, 2015. **Present a paper title- “Simulation of non-Newtonian blood flow past an irregular arterial segment”**
6. National Seminar on Advancement of Mathematical Science, Assam Academy of Mathematics & Dept. of Math. Gauhati University, Guwahati, on 22nd December, 2015. **Present a paper title- “Numerical Simulation of Casson fluid flow and mass transfer in stenosed coronary arteries”.**
7. Indo-German Conference on “Modelling, Simulation and Optimization in Applications”, 22 - 24 February, 2017, Department of Mathematics, Bankura University, West Bengal, India, **Present a paper title- “CFD modelling of Casson fluid flow and mass transport through atherosclerotic vessels”.**
8. International Conference on Exploring Advances in Mathematical Sciences 2017 (ICEAMS-2017), March 23-24, 2017. University of Gour Banga, Malda. Attended and present paper entitled **“Mathematical modeling of arterial drug delivery from half-embedded drug eluting stent”.**

Membership in Scientific Societies:

1. Life member, International Association of Engineers (IAENG).
2. Life member, Indian Science Congress (ISC)