CURRICULUM VITAE

SAMIRON KUMAR SAHA
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Department of Physics,
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Career Objective:

I aim to involve myself in teaching and research activities and help the students better understand science and technology through a better understanding of basic and advanced physics.

Professional Experience:

1. 2nd April 2012 – 1st October 2014
   Lecturer, Department of Physics
   Pabna University of Science and Technology, Pabna-6600, Bangladesh
2. 2nd October 2014 to 21st December, 2020
   Assistant Professor, Department of Physics
   Pabna University of Science and Technology, Pabna-6600, Bangladesh
3. 22nd December 2020 to Present
   Associate Professor, Department of Physics
   Pabna University of Science and Technology, Pabna-6600, Bangladesh
4. July 2018 to September 2020
   PhD Fellow (Abroad), Bangabandhu Science and Technology Fellowship Trust
5. October 2017 to September 2020
   Research Assistant, Graduate School of Science and Technology, Department of Bioscience, Shizuoka University, Japan

Administrative Experience:

1. Director, Student Advisor Office,
   Pabna University of Science and Technology, Pabna, Bangladesh
   From 10.02.2021 to 09.02.2023.

Last Degree Awarded:

Doctor of Philosophy (PhD) in Bioscience, Obtained in September 2020, Shizuoka University, Japan.

Research Work:

i. M.S. Thesis entitled **"3D Phantom Studies for Measuring Liquid Volume in Stomach Using 6-Electrode Focused Impedance Method"** under the supervision of Professor Golam Dastegir Al-Quaderi, Department of Physics and the co-supervision of Professor Dr. K Siddique-e-Rabbani, Department of Biomedical Physics and Technology, University of Dhaka.

ii. PhD Thesis entitled **"Membrane Tension in Negatively Charged Lipid Bilayers under Osmotic Pressure and its Effects on their Membrane Dynamics"** under the supervision of Professor Dr. Masahito Yamazaki, Integrated Bioscience Section, Graduate School of Science and Technology, Nanomaterials Research Division, Research Institute of Electronics, and Department of Physics, Faculty of Science, Shizuoka University, Shizuoka 422-8529, Japan.

iii. I served as a Research Assistant at Professor Dr. Yamazaki's Lab in the Department of Bioscience, Graduate School of Science and Technology, Shizuoka University, Japan from October 2017 to September 2020.

Research Grants Received:

Sl.	Organization Offering the Grant	Project title	Period

1.	Pabna University of Science and Technology, Pabna- 6600, Bangladesh	Adsorption of Miglitol Anti-diabetic Drug on the Surface of $X_{12}Y_{12}$ (X= B, Al; Y= N, P) Nanocages: A DFT Study	2022-2023 Fiscal Year
2.	Pabna University of Science and Technology, Pabna- 6600, Bangladesh	The Effect of Adsorption of Miglitol Anti-diabetic Drug on the $B_{12}N_{12}$ and $XB_{11}N_{12}$ (where X= Al, Ga, In) Nanocages: A Comparative DFT Study with COSMO Insights	2023-2024 Fiscal Year
3.	Pabna University of Science and Technology, Pabna- 6600, Bangladesh	Investigation of The Adsorption Properties of Hydroxyurea Anti-cancer Drug with Transition Metal Doped Boron Nitride Fullerenes as a Drug-delivery Carrier: a DFT study and COSMO Insights.	2024-2025 Fiscal Year

Supervision of Completed Project at Undergraduate Level:

Sl.	Level (B.Sc.)	Project Tile	Year
1.	01	The Isotopic Bone Scan Using a Gamma Camera	2014
2.	01	Monitor Unit Calculation for Photon and Electron Beam	2014
3.	01	Glomerular Filtration Rate: Tc-99m- Dtparenography Method	2014
4.	01	Quality Assurance in High-Dose Rate Brachytherapy Treatment	2014
5.	01	Radiation Dose to Patients from Radiopharmaceuticals	2015
6.	01	High Dose Rate Brachytherapy in The Treatment of Cervical Cancer Using Iridium Source	2015
7.	01	High Dose Rate Brachytherapy in The Treatment of Cervical Cancer with Cobalt 60	2015
8.	01	Brachytherapy Treatment Planning for Cervical Cancer	2015

Supervision of Completed Graduate Research Work:

Sl.	Level (Masters)	Project Title	Year
1.	01	Review of Measurement of Liquid Volume in the Stomach Using 6-Electrode Focused Impedance Method	2016

Sl.	Level (Masters)	Thesis Title	Year
1.	01	Adaptive Radiotherapy for Head and Neck Cancer of an Institutional Study with Limitations Source	2022
2.	01	A Comparative DFT Study of Anti-cancer Drugs on C_{24}, $B_{12}N_{12}$, $Al_{12}N_{12}$ Nanocages	On Going

Member/Fellowship:

- Biophysical Society of Japan, Japan Member no.: 8411
- Bangladesh Medical Physics Association (BMPA), Dhaka, Bangladesh.
- PhD (Abroad) Fellow, 2017-2018 (2nd Phase), Bangabandhu Science and Technology Fellowship Trust, Government of the People's Republic of Bangladesh

Attending Conferences:

- International conference on recent advances in physics, RAP 2010, March 27-29, 2010, Dhaka University, (Bangladesh).
- National Conference on Development of Physics, BUET, 2011, Dhaka, Bangladesh.
- Regional conference on medical physics, 18 February 2011, Dhaka, Bangladesh.

Oral Presentations:

1. **Samiron Kumar Saha**, Rayhan Mostofa, Rituparna Ghosh, Faruak Ahmad, Abul Hasnat, Mahbubur Rahman Bhuiyan, Md. Rakib Hossain, Maliha Nishat, "Adsorption of Miglitol Anti-diabetic Drug on the Surface of $X_{12}Y_{12}$ (X= B, Al; Y= N, P) Nanocages: A DFT and COSMO Insights", National Conference on Physics-2025 Physics: Enigma and Beauty, Bangladesh Physical Society (BPS2025), February 6-7, 2025, Presentation number IVC-CP03
2. Al-Amin, Priyanka Poddar, Abdul Mannan, Abul Hasnat, Samiul Alim, Pretam K. Das, M Rafiqul Islam, **Samiron Kumar Saha**, "Adaptive Radiotherapy for Head and Neck Cancer of an Institutional Study with

3DCRT" National Conference on Physics-2025 Physics: Enigma and Beauty, Bangladesh Physical Society (BPS2025), February 6-7, 2025, Presentation number IIC-CP01

Poster Presentations:

1. **Samiron Kumar Saha**, Maliha Nishat, Rayhan Mostofa, Al-Amin, Abul Hasnat, "**The Adsorption Effect of an Anti-diabetic Drug on the Surface of $B_{12}N_{12}$ and $XB_{11}N_{12}$ (where X= Ga, Al, In) Nanocages: A Comparative DFT Study with COSMO Insights**", A National Conference on Physics for The Future: Exploring Matter, Energy, Life, and Cosmos, Department of Physics, Jashore University of Science and Technology, June 29, 2025, Presentation number pp- 07.
2. Al-Amin, Priyanka Poddar, Abdul Mannan, Abul Hasnat, Samiul Alim, Pretam K. Das, M Rafiqul Islam, **Samiron Kumar Saha**, "Adaptive Radiotherapy for Head and Neck Cancer of an Institutional Study", 4th International Conference on Medical Physics in Radiation Oncology and Imaging, February 13-15, 2025, Poster number PP-23.
3. Md. Masum Billah, **Samiron Kumar Saha**, Md. Mamum Or Rashid, Farzana Hossain and Masahito Yamazaki, "Effect of osmotic pressure (Π) on antimicrobial peptide magainin 2 (Mag)-induced pore formation in giant unilamellar vesicles (GUVs)", The 59th Annual Meeting of the Biophysical Society of Japan (BSJ2021), November 25-27, 2021, Online Conference, Poster number 2-10-1600.
4. **Samiron Kumar Saha** and Masahito Yamazaki, "The Effect of Osmotic Pressure on the Transbilayer Movement (Flip-Flop) of Lipid Molecules", The 58th Annual Meeting of the Biophysical Society of Japan (BSJ2020), September 16-18, 2020, Online Conference.
5. **Samiron Kumar Saha**, Sayed Ul Alam Shibly and Masahito Yamazaki, "Estimation of Membrane Tension of DOPG/DOPC-GUVs Induced by Osmotic Pressure", The 6th International Symposium toward the Future of Advanced Researches in Shizuoka University, March 5, 2020, Japan, PS-35.
6. Md. Mizanur Rahman Moghal, Md. Zahidul Islam, Farzana Hossain, **Samiron Kumar Saha,** and Masahito Yamazaki, "Effects of Membrane Potential on Interaction of Cell-Penetrating Peptides Transportan 10 with Single Vesicles", The 64th Annual Meeting of the Biophysical Society (BPS), February 15-19, 2020, San Diego, California, USA.
7. **Samiron Kumar Saha**, Sayed Ul Alam Shibly, and Masahito Yamazaki, "Estimation of Membrane Tension of DOPG/DOPC-GUVs Induced by Osmotic Pressure", The 4th International Symposium on Biomedical Engineering (ISBE2019), November 14-15, 2019, Act City Hamamatsu Congress Center, Hamamatsu, Japan, P1-08.
8. **Samiron Kumar Saha**, Sayed Ul Alam Shibly and Masahito Yamazaki, "Estimation of Membrane Tension of DOPG/DOPC-GUVs Induced by Osmotic Pressure" The 57th Annual Meeting of the Biophysical Society of Japan (BSJ2019), September 24-26, 2019, Miyazaki, Japan, 2Pos180.
9. Md. Mizanur Rahman Moghal, Md. Zahidul Islam, **Samiron Kumar Saha** and Masahito Yamazaki, "Effects of Membrane Potential on Interaction of Cell-Penetrating Peptides Transportan 10 with Single Vesicles", The 57th Annual Meeting of the Biophysical Society of Japan (BSJ2019), September 24-26, 2019, Miyazaki, Japan, 2Pos171*.
10. Md. Mizanur Rahman Moghal, Md. Zahidul Islam, **Samiron Kumar Saha** and Masahito Yamazaki, "Effects of Membrane Potential on Interaction of Cell-Penetrating Peptides Transportan 10 with Single Vesicles", The Annual Meeting of Cooperative Research at Research Center of Biomedical Engineering, Tokyo Medical and Dental College, March 8, 2019, Japan.
11. Moynul Hasan, **Samiron Kumar Saha**, and Masahito Yamazaki, "Effect of Membrane Tension on Transbilayer Movement of Lipids", The 5th International Symposium toward the Future of Advanced Researches in Shizuoka University, March 6, 2019, Japan, Ps-G13.
12. Moynul Hasan, **Samiron Kumar Saha**, Rajib Ahmed, and Masahito Yamazaki, "Effect of Membrane Tension on Transbilayer Movement of Lipids", The 20th Takayanagi Kenjiro Memorial Symposium and the 4th International Conference on Nano Electronics Research and Education (ICNERE2018), November 27-29, 2018, Shizuoka University, Hamamatsu, Japan, PS-24, pp.135-136.
13. Moynul Hasan, **Samiron Kumar Saha**, and Masahito Yamazaki, "Effect of Membrane Tension on Transbilayer Movement of Lipids" The 56th Annual Meeting of the Biophysical Society of Japan (BSJ2018), September 15-17, 2018, Okayama, Japan, 1Pos087, pp. S136.

List of Publications:

1. **"Ab-initio technique to examine the mechanical, electronic, optical and thermal features of direct band-gap semiconductors APtSn (A= Ti, Zr, Hf, Th): An extended review",** Dayal Chandra Roy, Norah Algethami, Samiron Kumar Saha, Mst. Asma Khatun, Md. Zahid Hasan, Mufrat Montasir, Nazmul Islam Nahid, Md. Ferdous Rahman, Md. Atikur Rahman, Optical and Quantum Electronics (Springer Nature), Volume 57, Article Number 393, pp 1 – 35, 2025, Online ISSN: 1572-817X, Print ISSN: 0306-8919, impact factor 3.3, https://doi.org/10.1007/s11082-025-08303-z.

2. **"Ab-initio Simulation on Structural, Mechanical, Electronic, Optical and Thermodynamic Properties of Disilicide materials ThX_2Si_2 (X = Ru, Rh, Ir, Pt)"**, Md. Atikur Rahman, Rukaia Khatun, Mst. Asma Khatun, **Samiron Kumar Saha**, Md. Zahid Hasan, Ahmad Irfan, Md. Mukter Hossain, Aslam Hossain, Md. Hasan Mia, Sarah Chaba Mouna, Optical and Quantum Electronics (Springer Nature), Volume 57, article number 330, pp 1 – 39, 2025, Online ISSN: 1572-817X, Print ISSN: 0306-8919, impact factor 3.3, https://doi.org/10.1007/s11082-025-08199-9.

3. **"Pressure Effects on Physical Properties of Binary Rare Earth Mono-Pnictide *YBi* for Optoelectronic Applications"**, Md. Lokman Ali, Zahid Hasan, Shanzida Naznin Mim, **Samiron Kumar Saha**, Advanced Theory and Simulations (Wiley), Volume 8, Issue 4, pp 1 – 21, April 2025. Online ISSN: 2513-0390, impact factor 3.5, DOI: 10.1002/adts.202401066.

4. **"Investigation of the Adsorption of Miglitol Anti-diabetic Drug on the Surface of $X_{12}Y_{12}$ (X= B, Al; Y= N, P) Nanocages: A DFT and COSMO Insights", Samiron Kumar Saha**, Rayhan Mostofa, Rituparna Ghosh, Md. Faruak Ahmad, Md. Abul Hasnat, Md. Mahbubur Rahman Bhuiyan, Md. Rakib Hossain, Maliha Nishat, Computational and Theoretical Chemistry, volume 1241, 2024, 114873, Online ISSN: 2210-2728. Print ISSN: 2210-271X, Copyright © 2024 Elsevier B.V. All rights reserved.; 2024, DOI: 10.1016/j.comptc.2024.114873, impact factor 3.0.

5. **"Enhanced physical properties of stable lead-free oxide double perovskite Ba_2TbBiO_6 for photovoltaics: Effects of Sb doping"**, **Samiron Kumar Saha**, Mithun Khan, Zahid Hasan, Dayal Chandra Roy, Md. Lokman Ali, AIP Advances (AIP Publishing), Volume 14, Issue 3, 035013 (2024), pp. 01-12, ISSN: 2158-3226 (web), DOI: 10.1063/5.0197633, impact factor 1.4.

6. **"First-Principles Study of the Physical Properties of CuV_2S_4 under Pressure"**, Md. Atikur Rahman, Jannatul Ferdose Lubna, Sushmita Sarker, Rukaia Khatun, Md. Zahidur Rahaman, Khandaker Monower Hossain, **Samiron Kumur Saha**, Md. Rasheduzzaman, Md. Zahid Hasa, 2022, Physics of the Solid State (Springer), Volume 64, Issue 8, pp. 929–941, ISSN: 1063-7834 (print); 1090-6460 (web), DOI:10.21883/PSS.2022.08.54607.003, impact factor 0.9.

7. **"Effect of Osmotic Pressure on Pore Formation in Lipid bilayers by the Antimicrobial Peptide Magainin 2"** Md. Masum Billah, **Samiron Kumar Saha**, Md. Mamum Or Rashid, Farzana Hossain and Masahito Yamazaki, 2022, Physical Chemistry Chemical Physics (Royal Society of Chemistry), Volume 24, Issue 11, pp. 6716–6731 ISSN: 1463-9076 (print); 1463-9084 (web), DOI: 10.1039/D1CP05764B, impact factor 3.3.

8. **"Membrane Tension in Negatively Charged Lipid Bilayers in a Buffer under Osmotic Pressure" Samiron Kumar Saha**, Sayed Ul Alam Shibly, and Masahito Yamazaki, 2020, The Journal of Physical Chemistry B (ACS), Volume 124, Issue 27, pp. 5588–5599, ISSN: 1520-6106 (print) 1520-5207 (web), DOI: 10.1021/acs.jpcb.0c03681, impact factor 2.99.

9. **"Role of Membrane Potential on Entry of Cell-Penetrating Peptides Transportan 10 into Single Vesicles"** Md. Mizanur Rahman Moghal, Md. Zahidul Islam, Farzana Hossain, **Samiron Kumar Saha** and Masahito Yamazaki, Biophysical Journal, 2020, Volume 118, Issue 1, pp. 57-69, ISSN: 0006-3495 (print), 1542-0086 (online), DOI: 10.1016/j.bpj.2019.11.012, impact factor 3.85.

10. **"The Role of Membrane Tension on the Action of Antimicrobial Peptides and Cell-Penetrating Peptides in Biomembranes"** Moynul Hasan, Md. Mizanur Rahman Moghal, **Samiron Kumar Saha,** Masahito Yamazaki, Biophysical Reviews (Springer), 2019; 11 (3), pp. 431–448, ISSN: 1867-2450 (Print) 1867-2469 (Online), DOI: 10.1007/s12551-019-00542-1, impact factor 4.9 (2023).

11. **"Effects of Transmembrane Asymmetric Distribution of Lipids and Peptides on Lipid Bilayers"** Victor Livadnyy, Moynul Hasan, **Samiron Kumar Saha**, Masahito Yamazaki, The Journal of Physical

Chemistry B (ACS), 2019, 123, ISSN: 1520-6106 (print) 1520-5207 (web), pp. 4645−4652, DOI: 10.1021/acs.jpcb.9b01562, impact factor 2.86.

12. **"Effects of Membrane Tension on Transbilayer Movement of Lipids"** Moynul Hasan, **Samiron Kumar Saha,** Masahito Yamazaki, The Journal of Chemical Physics (American Institute of Physics), 148, 24, pp. 245101 (2018), ISSN: 1727-6179 (Print); 2408-8358 (Online), DOI: 10.1063/1.5035148, impact factor 2.97.
13. **"Photon and Electron Beam in the Treatment of Cancer Patient based on Monitor Unit Completion",** Alamgir Hossain, Dayal Chandra Roy, **Samiron Kumar Saha**, Nazrul Islam, Science Publishing Group, Cancer Research Journal, 2016; Volume 4(6): pp. 90-105, ISSN: 2330-8192 (Print); ISSN: 2330-8214 (Online).
14. **"The Split-Function Effect of Renal Scintigraphy for the Evaluation of Renal Disorders Due to Tc-DTPA Pharmaceutical"** Alamgir Hossain**, Samiron Kumar Saha,** Pyrex Journal of Biomedical Research, Volume 1 (5) pp. 045-054 November 2015, ISSN: 2579-1222.
15. **"The Estimation of Glomerular Filtration Rate (GFR) for Renal Split Function with 99mTc-DTPA"**, Alamgir Hossain, Bedarul Islam, Chanchal K. Ckaki, **Samiron Kumar Saha**, Shariful I. Chowdhury, Journal of International Journal of Advance Research in Applied Science, Volume 2 Issue 11 November 2015, ISSN: 2208-2352, pp. 16-32.
16. **"Maximum Tolerance Level of Internal Radiation Absorbed Dose for Human Brain due to 99m-Tc pharmaceutical",** Alamgir Hossain, Bedarul Islam, **Samiron Kumar Saha**, Kabiruzzaman Shah, Shariful lslam Chowdhury, International Research on Medical Sciences, Volume 3(2), pp. 020-027, December 2015, ISSN 2315-8845.
17. **"Polymethyl Methacrylate Phantom on CT Imaging to Evaluate Size-Specific Effective Dose in Pediatric and Adult Body",** Alamgir Hossain**, Samiron Kumar Saha,** International Journal of Biomedical Science and Engineering, Volume 3, Issue 6, 2015, pp. 82-88, ISSN: 2376-7227 (Print); ISSN: 2376-7235 (Online).
18. **"3D Sensitivity of 8-Electrode FIM through Experimental Study in a Phantom" Samiron Kumar Saha,** Golam Dastegir Al-Quaderi, K Siddique-e-Rabbani, Bangladesh Journal of Medical Physics Volume 6, No.1,56-65 (2013), ISSN: 1727-6179 (Print); 2408-8358 (Online), DOI: 10.3329/bjmp.v6i1.19759, impact factor 0.32
19. **"Measurement of Liquid Volume in Stomach Using 6-Elctorde FIM for Saline Water Intake at Periodic Intervals"** Samiron K. Saha, Pretam Kumr Das, Global Journal of Science Frontier Research Physics and Space Science (USA), Volume 13, Issue 7, Version 1.0, pp. 38-43 (2013), ISSN: 2249-4626 (Online), 0975-5896 (Print).
20. **"Nucleus-Nucleus (Non-monotonic) Potentials and Vector Analyzing Powers of ^{6}Li Scattering by ^{16}O",** Pretam Kumar Das, **Samiron Kumar Saha,** International Journal of Scientific Engineering and Technology, Volume 2, Issue 11, pp 1098 – 1102, 1 Nov. 2013, ISSN: 2277-1581

Educational Qualifications:

Degree	Subject Or Group	Year	Institution	Result	Mark (%)
Doctor of Philosophy (PhD)	Bioscience	2020	Shizuoka University, Japan	Awarded	
M.S. (Thesis)	Physics	2008 (Held in 2010)	University of Dhaka	First Class (5th position)	71.33
B.Sc. (Hon's)	Physics	2007 (Held in 2009)	University of Dhaka	First Class (8th position)	61.90
H.S.C.	Science	2002	Notre Dame College, Dhaka	First Division	77.8
S.S.C.	Science	2000	Dhoba Khola Coronation (Natiabari) High School, Pabna	First Division	82.7

Core Courses:

PhD: Japanese Language, Molecular Life Science, Practical Use Technology English Conversation II, Biomaterial, Environmental Measurement.

M.S.: Computational Physics, Non-Equilibrium statistical Mechanics, Nuclear Physics-I: Nuclear Reaction Theory and Structure, Advance Laser Physics-I.

B.Sc.: Mechanic, Oscillations and Properties of Matter, Thermal Physics, Electricity and Magnetism, Calculus-I, Linear Algebra-I, Fundamentals of Chemistry, Chemistry Laboratory, Basic Statistics, Waves and Optics, Electronics, Mathematical Physics, Atomic and Molecular Physics, Advanced Language Skills, Calculus-II, Ordinary Differential Equation, Numerical Analysis, Principles of Statistics, Classical Mechanics and Special Theory of Relativity, Classical Electrodynamics, Quantum Mechanics, Nuclear Physics, Solid State Physics-I, Programming and Scientific Computing, Quantum Mechanics, Electronics and Computer, Solid State Physics-II, Statistical Mechanics, Nuclear Physics-II, Methods of Experimental Physics, Laboratory experiments during the four years period.

Language Proficiency:

Considerably good both in written and spoken in English and Bengali. The medium of instruction was English at Bachelor of Science (Honors) Master of Science levels and PhD program. I am taking our classes in English in my university.

Computer Skills:

Operating Systems	: Windows 2000, Windows XP, Windows Vista, Windows 7 and 10, Linux
Application Software	: MS Office, Origin 6.1,18, 20 Plot, Adobe Photoshop, Adobe Illustrator
Programming Language	: C, C^{++}, FORTRAN 98

Practical Skills:

- Research capability in the laboratory.
- Report writing ability.
- Interact with peoples of different jobs and taste.

Core Strengths:

- Able to work in any challenging environment.
- Commitment to teamwork.
- Ability to work under pressure and punctual to any deadline.
- Willingness to share information and ideas.
- Commitment to continuous learning, skill development.
- Research and analysis.
- Excellent intercommunication skills.
- Dynamic, amicable, smart.
- Sincere, punctual, disciplined.

Personal Profile:

Name	: Samiron Kumar Saha
Father's Name	: Ratish Chandra Saha
Mother's Name	: Shusama Rani Saha
Permanent Address	: C/O Shusama Rani Saha, Vill.: Horinathpur, P.O: Puranvarenga, P.S.: Aminpur, Upazilla: Bera, District: Pabna-6683, Bangladesh
Present Address	: 1/E Manama Aranya, Shalgaria, Pabna Pourosova, Ward No. 3, Pabna Sadar, Pabna-6600, Bangladesh
Mailing Address	: Associate Professor, Department of Physics, Pabna University of Science and Technology, Pabna-6600, Bangladesh
Date of Birth	: 1 July, 1985
Marital Status	: Married
Religion	: Hindu
Nationality	: Bangladeshi (By Birth)
Blood Group	: A+
National ID	: 19857611673073463
Birth Registration No.	: 19857611673001095

Passport No. : BM0434329

References:

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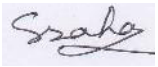
Certification:

I certify that all information stated in the curriculum vitae is true and complete to the best of my knowledge. I authorize you to verify the information provided in the curriculum vitae.



Signature……. Date: January, 2025

(Dr. Samiron Kumar Saha)