

## Curriculum Vitae of Dr. Md. Atikur Rahman

**Dr. Md. Atikur Rahman**

**Professor**

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Google Scholar	<a href="https://scholar.google.com/citations?user=kRKC7FIAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=kRKC7FIAAAAJ&amp;hl=en</a>
Research Gate	<a href="https://www.researchgate.net/profile/Md-Atikur-Rahman-5">https://www.researchgate.net/profile/Md-Atikur-Rahman-5</a>
Website	<a href="https://pust.ac.bd/academic/departments/dept_teachers/dept_teachers_profile/100088">https://pust.ac.bd/academic/departments/dept_teachers/dept_teachers_profile/100088</a>

**Research Interest:** Solid State Physics, Materials Science, Condensed Matter Physics, Superconductivity, Solid-State Reaction method, CASTEP Code, DFT simulation, Wien2k, GGA-PBE and TB-mbj.

### 1. Academic Qualifications:

Degree/ Examination	Institution (University / College/ School/ Department)	Class/Division/ GPA (Percent Marks where applicable)	Year
<b>PhD</b> in Physics	Department of Physics, Pabna University of Science and Technology Pabna-6600, Bangladesh.	Successfully Awarded	2021
<b>M.Sc.</b> (Thesis)	Department of Physics, University of Rajshahi.	First Class <b>(1<sup>st</sup> Position)</b>	2010
<b>B.Sc.</b> (Hons.) (4 years Integrated)	Department of Physics, University of Rajshahi.	First Class <b>(1<sup>st</sup> Position)</b>	2009
H.S.C. (Science group)	Dr. Nashir Uddin Talukdar College, Natore.	4.90	2005
S.S.C. (Science group)	Srish Chandra BidyaNiketon High School, Natore.	4.50	2003

### 2. Teaching Experiences (start from the present):

Position	Institution	From	To
Associate Professor	Department of Physics, Pabna University of Science & Technology	7 <sup>th</sup> October	Till Now
Assistant Professor	Department of Physics, Pabna University of Science & Technology	1 <sup>st</sup> September, 2015	6 <sup>th</sup> October
Lecturer	Department of Physics, Pabna University of Science & Technology	1 <sup>st</sup> September, 2013	31 <sup>th</sup> August, 2015

### Research Experience:

- (i) M.S. Thesis entitled “**Structural, Elastic, electronic and Optical Properties of SrSi<sub>2</sub>**” under the supervision of Professor Dr. A.K.M. Azharul Islam, Department of Physics, University of Rajshahi, Rajshahi-6205.
- (ii) PhD Thesis entitled “**Synthesis, Characterization and Physical Properties of AM<sub>2</sub>O<sub>6</sub> (A = Mg, Co, Ni; M = V, Bi, Cr)**” under the supervision of Professor Dr. Abdur Razzaque Sarker, Department of Physics, University of Rajshahi, Rajshahi-6205.

### 3. Professional Awards / Honours Received:

**Best Research Award** (Faculty of Science) received from Pabna University of Science and Technology in 2022. National Science and Information and Communication Technology Scholarship (2010), Professor Basak Award 2009, Professor Basak Scholarship-2006, 2008, sponsored by Peninsula Welfare Trust, Bangladesh and Gold Medal by Shaheed Suhrawardy Hall for First class in B.Sc. Honours (2009).

### 4. List of Publications:

Serial No.	Quar -tile	Title, Journal, Publisher and Volume with page number	Pub. Year
1.	Q1	Sabah, Maahi, Ahmad Irfan, Md Saiful Islam, Md Tanvir Ahmed, Ruma Parvin, Md Atikur Rahman, and Md Shahajan Ali. "DFT-based exploration of pressure effects on the physical properties of Zinc-blende materials XM (X= Ga, In; M= As, N) for optoelectronic devices." <i>Scientific Reports</i> (2026).	2026
2.	Q1	Rahman, Md Atikur, Ahmad Irfan, Md Nadim Mahamud Nobin, Mst Khatun, and Md Ferdous Rahman. "Ab-initio study of the structural, mechanical, electronic, optical, and thermal characteristics of lead-free double perovskites Cs <sub>2</sub> TlAX <sub>6</sub> (A= As, Sb; X= Cl, Br, I) under hydrostatic pressure." <i>Optical and Quantum Electronics</i> 58, no. 2 (2026): 73.	2026
3.	Q2	Al Galib, Tanvir, Ajadi Yasmen, Ahmad Irfan, Aijaz Rasool Chaudhry, Md Atikur Rahman, Md Faruk Hossain, and Md Ferdous Rahman. "Ab initio study of lead-free K <sub>2</sub> ScInX <sub>6</sub> (X= F, Cl, Br, I) halide double perovskites for sustainable optoelectronics." <i>Computational and Theoretical Chemistry</i> (2026): 115681.	2026
4.	Q1	Rahman, Md Atikur, Asma Khatun, Dayal Chandra Roy, Mezba Chowdhury, and Ahmad Irfan. "DFT simulation to study the mechanical, electronic, thermal and superconducting properties of borocarbides materials AX <sub>2</sub> B <sub>2</sub> C where A= Y, La, Th and X= Pd, Pt." <i>Scientific Reports</i> 15, no. 1 (2025): 30033.	2025
5.	Q2	Islam, Md Shoriful, Md Atikur Rahman, Ahmad Irfan, Antor Saha, Mst Asma Khatun, and Ferdous Rahman. "Exploring physical properties of layered ternary MAX phases Ti <sub>4</sub> XC <sub>3</sub> (X= Ga, Si) at high pressure for engineering applications." <i>Optical Materials Express</i> 15, no. 12 (2025): 3100-3128.	2025
6.	Q1	Basak, Ananya, Ahmad Irfan, Mst Asma Khatun, M. M. Rabbi, Disha Roy, Mohammad Yasin Hayat Khan, M. S. Ali, Md Ferdous Rahman, and Md Atikur Rahman. "First-principles study of M <sub>4</sub> AlC <sub>3</sub> (M= Ti, Zr) MAX phases under hydrostatic pressure: material design for industrial applications." <i>RSC advances</i> 15, no. 33 (2025): 27210-27237.	2025
7.	Q3	Rahman, Md Atikur, Norah Algethami, Mst Asma Khatun, Mohammad Yasin Hayat Khan, Md Nadim Mahamud Nobin, Tajrin Akhtar, and Ananya Basak. "Elastic, Electronic, Thermal and Superconducting Properties of Ni-Based Borocarbides MNi <sub>2</sub> B <sub>2</sub> C	2025

		(M= Sc, Y, La, Yb, Lu, Th) through DFT Replication." <i>Brazilian Journal of Physics</i> 55, no. 6 (2025): 254.	
8.	Q2	Saha, Antor, Md Atikur Rahman, Ahmad Irfan, Mst Asma Khatun, Md Shoriful Islam, Samiron Kumar Saha, Dayal Chandra Roy, and Md Ferdous Rahman. "Effect of hydrostatic pressure for tuning the band gap of lead-free perovskites $A_2TiGaCl_6$ (A= Cs, Rb) aimed at optoelectronic device applications." <i>Optical Materials Express</i> 15, no. 11 (2025): 2948-2974.	2025
9.	Q2	Rahman, Md Ferdous, Md Rubayed Hasan Pramanik, Md Faruk Hossain, Tanvir Al Galib, Md Atikur Rahman, Aijaz Rasool Chaudhry, and Ahmad Irfan. "Multidimensional Analysis of $K_2NaBiF_6$ : A Lead-Free Halide for Green Optoelectronic Technologies." <i>Computational Condensed Matter</i> (2025): e01160.	2025
10.	Q1	Roy, Dayal Chandra, Norah Algethami, Samiron Kumar Saha, Mst Asma Khatun, Md Zahid Hasan, Mufurat Montasir, Nazmul Islam Nahid, Md Ferdous Rahman, and Md Atikur Rahman. "A b-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: DC Roy et al." <i>Optical and Quantum Electronics</i> 57, no. 7 (2025): 393.	2025
11.	Q2	Islam, M. S., Norah Algethami, M. Sabah, M. T. Ahmed, M. A. H. Chowdhury, Md Shahidul Islam, Md Atikur Rahman, R. Parvin, and M. S. Ali. "Investigation of Pressure Effects on Binary Carbides ZC (Z= Ti, Zr and Hf): Promising Candidates as a Coating Materials." <i>Physica B: Condensed Matter</i> (2025): 417387.	2025
12.	Q1	Rahman, Md Atikur, Rukaia Khatun, Mst Asma Khatun, Samiron Kumar Saha, Md Zahid Hasan, Ahmad Irfan, Md Mukter Hossain, Aslam Hossain, Md Hasan Mia, and Sarah Chaba Mouna. "Ab initio simulation on structural, mechanical, electronic, optical and thermodynamic properties of disilicide materials $ThX_2Si_2$ (X= Ru, Rh, Ir, Pt)." <i>Optical and Quantum Electronics</i> 57, no. 6 (2025): 330.	2025
13.	Q2	Rahman, Md Ferdous, Tanvir Al Galib, Ahmad Irfan, Aijaz Rasool Chaudhry, Md Atikur Rahman, and Md Faruk Hossain. "Role of halide substitution in $K_2SiX_6$ (X= F, Cl, Br) perovskites: first-principles insights for sustainable solar cell materials." <i>Chemical Physics</i> (2025): 112964.	2025
14.	Q1	Md. Ferdous Rahman, Md. Faruk Hossa, Md. Atikur Rahman, Halide-Dependent Modulation of Electronic and Optical Properties in $K_2SbAuX_6$ (X = F, Cl) Lead-Free Perovskites, <i>International Journal of Modern Physics B</i> , 2025.	2025
15.	Q1	Tarekuzzaman, Md, Mohammad Hasin Ishraq, Md Atikur Rahman, Ahmad Irfan, Md Zillur Rahman, Mist Shamima Akter, Sumaya Abedin et al. "A systematic first-principles investigation of the structural, electronic, mechanical, optical, and thermodynamic properties of Half-Heusler $ANiX$ (A= Sc, Ti, Y, Zr, Hf; X= Bi, Sn) for spintronics and optoelectronics applications." <i>Journal of Computational Chemistry</i> 45, no. 29 (2024): 2476-2500.	2024
16.	Q2	ISLAM, MD, Md Atikur Rahman, R. Parvin, M. A. H. Chowdhury, A. Basak, D. Roy, and M. S. Ali. "Investigation of different physical properties of mixed-halide double perovskites $K_2SnBr_{6-x}Cl_x$ and $K_2SnI_{6-x}Br_x$ (x= 0, 2, 4, 6) for optoelectronic device applications." <i>PHYSICA B: CONDENSED MATTER</i> 700 (2025): 416844.	2024
17.	Q1	Rahman, Md Ferdous, Md Harun-Or-Rashid, Md Rasidul Islam, Ahmad Irfan, Aijaz Rasool Chaudhry, Md Atikur Rahman, and Samah Al-Qaisi. "A Deep Analysis and Enhancing Photovoltaic Performance Above 31% with New Inorganic $RbPbI_3$ -Based Perovskite Solar Cells via DFT and SCAPS-1D." <i>Advanced Theory and Simulations</i> 7, no. 10 (2024): 2400476.	2024
18.	Q3	Cheikh, Khaled, Wahiba Metiri, Md Atikur Rahman, and Asma Khatun. "Computational investigation of structural stability, mechanical, electronic and phonon properties of $Pd_3Zr$	2024

		compound in L12 and D024 phases." <i>Indian Journal of Physics</i> 99, no. 7 (2025): 2399-2410.	
19.	Q3	Rahman, Md Atikur, Rukaia Khatun, Mst Asma Khatun, Samiron Kumar Saha, Md Zahid Hasan, Ahmad Irfan, Md Mukter Hossain, Aslam Hossain, Md Hasan Mia, and Sarah Chaba Mouna. "Ab initio simulation on structural, mechanical, electronic, optical and thermodynamic properties of disilicide materials $\text{ThX}_2\text{Si}_2$ (X= Ru, Rh, Ir, Pt)." <i>Optical and Quantum Electronics</i> 57, no. 6 (2025): 330.	2024
20.	Q2	Islam, Md Shahidul, Md Atikur Rahman, and M. S. Ali. "Influence of pressure on the different physical features of lead-free double perovskite materials $\text{K}_2\text{SnX}_6$ (X= Cl, and Br): DFT replication." <i>Solid State Communications</i> 392 (2024): 115652.	2024
21.	Q1	Khatun, Rukaia, Atikur Rahman, Dayal Chandra Roy, Anjuman Ara Khatun, Mukter Hossain, Upasana Rani, Peeyush Kumar Kamlesh, Ahmad Irfan, and Sarah Chaba Mouna. "DFT study on the structural, mechanical, electronic, optical and thermodynamic properties of recently synthesized MAX Phase compounds $\text{A}_3\text{InC}_2$ (A= Zr, Hf) under ambient and elevated pressure." <i>Materials Today Communications</i> 40 (2024): 109964.	2024
22.	Q1	Mouna, Sarah Chaba, Missoum Radjai, Abdelmadjid Bouhemadou, Md Atikur Rahman, Huesnue Kara, Djamel Houatis, Djamel Allali, Saber Saad Essaoud, and Hatem Allaf. "Structural, electronic, and optical characteristics of $\text{BaXC13}$ (X= Li, Na) perovskites." <i>Materials Science and Engineering: B</i> 308 (2024): 117578.	2024
23.	Q1	Rahman, Md Atikur, Rejuana Ferdous, Dayal Chandra Roy, Rukaia Khatun, Ahmad Irfan, and Md Ferdous Rahman. "Pressure effect on the structural, electronic, mechanical, optical and thermal properties of $\text{Ga}_2\text{TiX}_6$ (X= Cl, Br): a DFT simulation." <i>Materials Science and Engineering: B</i> 308 (2024): 117553.	2024
24.	Q2	Rima, Azizun Nesa, Md Atikur Rahman, Rejuana Ferdous, Md Nadim Mahamud Nobin, and Md Ferdous Rahman. "DFT simulation to study the physical properties of ternary intermetallic materials $\text{ACuSb}$ (A= Ca, Sr, Ba) for solar cell and TBC materials." <i>Computational Condensed Matter</i> 39 (2024): e00900.	2024
25.	Q3	Rahman, Md Ferdous, Pobitra Barman, Md Azizur Rahman, Muhammad Mushtaq, Md Rasidul Islam, Md Atikur Rahman, Md Zamil Sultan, Aijaz Rasool Chaudhry, and Ahmad Irfan. "Electronic, optical, thermophysical, and mechanical properties of lead-free $\text{Ba}_3\text{SbBr}_3$ perovskite." <i>Polyhedron</i> 254 (2024): 116937.	2024
26.	Q1	Roy, Dayal Chandra, Md Atikur Rahman, Sushmita Sarker, Ahmad Irfan, Aijaz Rasool Chaudhry, and Md Ferdous Rahman. "First-principles calculations to investigate pressure effects on structural, elastic, electronic, optical and thermodynamic properties of $\text{AB}_2$ (A= Hf, Zr, and BCo, W) type laves phases." <i>Journal of Materials Research and Technology</i> 30 (2024): 2781-2797.	2024
27.	Q1	Jamila, Nusrat, Israt Jahan Farah, Jibon Krishna Modak, Wakil Hasan, Md Atikur Rahman, Md Mukter Hossain, Md Rasheduzzaman et al. "DFT based computational investigations of the physical properties of perovskites-structure $\text{SrXO}_3$ (X= Si, Tb, Th) for optoelectronic and thermo-mechanical applications." <i>Materials Today Communications</i> 38 (2024): 107650.	2024
28.	Q2	Rahman, Md Atikur, Kamrunnahar Mousumi, Md Lokman Ali, Md Zillur Rahman, Sayed Sahriar Hasan, Wakil Hasan, Md Rasheduzzaman, and Md Zahid Hasan. "First-principles calculations to investigate elastic, electronic, optical and thermodynamic properties of $\text{Pt}_3\text{X}$ (X= Ti, Cu)." <i>Results in Physics</i> 44 (2023): 106141.	2023
29.	Q2	Rahman, Md Atikur, Farhana Mostari, Md Zahid Hasan, Ahmad Irfan, Md Ferdous Rahman, Md Joynadul Hosain, Sarah Chaba Mouna, Iftakher Ahmed Chowdhury, Md Rasheduzzaman, and M. S. H. Choudhury. "First principles study on the structural, elastic, electronic, optical and thermal properties of lead-free perovskites $\text{CsCaX}_3$ (X= F,	2023

		Cl, Br)." <i>Physica B: Condensed Matter</i> 669 (2023): 415260.	
30.	Q2	Mouna, Sarah Chaba, Missoum Radjai, Md Atikur Rahman, Abdelmadjid Bouhemadou, Djamel Houatis, Djamel Allali, Saber Sâad Essaoud, and Hatem Allaf. "Physical properties of Be-based fluoroperovskite compounds XBeF <sub>3</sub> (X= K, Rb): a first-principles study." <i>Journal of Physics: Condensed Matter</i> 36, no. 5 (2023): 055701.	2023
31.	Q1	Rahman, Md Ferdous, Md Kamrul Hasan, Mithun Chowdhury, Md Rasidul Islam, Md Hafijur Rahman, Md Atikur Rahman, Sheikh Rashel Al Ahmed et al. "A qualitative Design and optimization of CIGS-based Solar Cells with Sn <sub>2</sub> S <sub>3</sub> Back Surface Field: A plan for achieving 21.83% efficiency." <i>Heliyon</i> 9, no. 12 (2023).	2023
32.	Q2	Rahman, Md Atikur, Wakil Hasan, Md Zahid Hasan, Ahmad Irfan, Sarah Chaba Mouna, Md Abdur Razzaque Sarker, Md Zahidur Rahaman, and Mahmudur Rahman. "Structural, mechanical, electronic, optical and thermodynamic features of lead free oxide perovskites AMnO <sub>3</sub> (A= Ca, Sr, Ba): DFT simulation based comparative study." <i>Physica B: Condensed Matter</i> 668 (2023): 415215.	2023
33.	Q1	Nishat, Maliha, Md Atikur Rahman, Most Farzana Islam, Md Abul Hasnat, Farid Ahmed, and Md Zahid Hasan. "Pressure effect on the physical properties of 413-type MAX phase compound Nb <sub>4</sub> AlC <sub>3</sub> : Insights from DFT simulation." <i>Materials Science and Engineering: B</i> 299 (2024): 116940.	2023
34.	Q2	Sadat, Md Nazmus, Md Atikur Rahman, Dayal Chandra Roy, Md Afjalur Rahman, Md Zahid Hasan, Irfan Ahmad, Swapnil Chowdhury, Wakil Hasan, Rejuana Ferdous, and Tajrin Aktar. "Study of the physical aspects of Pt <sub>3</sub> T (T= Mn, Ni) intermetallic compounds using first principles method." <i>Physica B: Condensed Matter</i> 672 (2024): 415402.	2023
35.	Q3	Ghosh, Avijit, Md Ferdous Rahman, Md Rasidul Islam, Md Shoriful Islam, M. Khalid Hossain, Sagar Bhattarai, Rahul Pandey, Jaya Madan, Md Atikur Rahman, and Abu Bakar Md Ismail. "Structural, electronic and optical characteristics of inorganic cubic perovskite Sr <sub>3</sub> AsI <sub>3</sub> ." <i>Optics Continuum</i> 2, no. 10 (2023): 2144-2153.	2023
36.	Q1	Rahman, Md Atikur, Rukaia Khatun, Rejuana Ferdous, Dayal Chandra Roy, Md Zahid Hasan, Ahmad Irfan, Md Abdur Razzaque Sarker et al. "First-principles calculations to investigate structural, elastic, electronic, optical and thermal properties of La-based ternary intermetallic superconductors LaM <sub>2</sub> Si <sub>2</sub> (M= Co, Cu, Rh, Pd, Ag, Ir, Pt, Au)." <i>Journal of Materials Research and Technology</i> 26 (2023): 3840-3862.	2023
37.	Q3	Khondoker, Shamaha, Md Saiduzzaman, Khandaker Monower Hossain, Wahidur Rahman Sajal, and M. Atikur Rahman. "First-principles calculations to investigate the physical properties of silicate perovskites ASiO <sub>3</sub> (A= Al, In) using density functional theory." <i>Indian Journal of Physics</i> 97, no. 7 (2023): 2033-2043.	2023
38.	Q1	Rahman, Md Atikur, Mahbub Hasan, Jannatul Ferdous Lubna, Rukaia Khatun, Sushmita Sarker, Md Zahid Hasan, Aslam Hossain et al. "Comparative study of the structural, mechanical, electronic, optical and thermodynamic properties of superconducting disilicide YT <sub>2</sub> Si <sub>2</sub> (T= Co, Ni, Ru, Rh, Pd, Ir) by DFT simulation." <i>Journal of Physics and Chemistry of Solids</i> 178 (2023): 111342.	2023
39.	Q2	Hasan, Md Zahid, M. A. Rayhan, Md Atikur Rahman, Aslam Hossain, Md Mukter Hossain, Wakil Hasan, Md Zillur Rahman et al. "Insights into the physical properties of newly synthesized AMn <sub>2</sub> P <sub>2</sub> (A= Ca, Sr) via density functional theory." <i>Physica B: Condensed Matter</i> 653 (2023): 414651.	2023
40.	Q1	Rahman, Atikur, Wakil Hasanb Hasanb, Rukaia Khatun, Md Zahid Hasan, Md Hafijur Rahman, Sushmita Sarker, Mahbub Hasan, and Jannatul Ferdous Lubna. "Comparative Study of the Physical Properties of Lead-Free Perovskites AZrO <sub>3</sub> (A= Mg, Ca, Sr, Ba, Sn, Cu) Through Dft Simulation." <i>Materials Today Communications</i> 34 (2023) 105339, <a href="https://doi.org/10.1016/j.mtcomm.2023.105339">https://doi.org/10.1016/j.mtcomm.2023.105339</a> .	2023

41.	Q2	Matiur, R. MD, Anissa A. Putri, Khandaker Monower Hossain, Md Atikur Rahman, Md Zahid Hasan, and T. Soga. "Experimental characterization and first-principles calculations to investigate structural, elastic, mechanical and optical properties of flakes-based BiOI film." <i>Physica B: Condensed Matter</i> 650 (2023): 414556.	2023
42.	Q1	Rahman, Md Atikur, Kamrunnahar Mousumi, Md Lokman Ali, Md Zillur Rahman, Sayed Sahriar Hasan, Wakil Hasan, Md Rasheduzzaman, and Md Zahid Hasan. "First-principles calculations to investigate elastic, electronic, optical and thermodynamic properties of Pt <sub>3</sub> X (X= Ti, Cu)." <i>Results in Physics</i> 44 (2023): 106141.	2023
43.	Q3	Rahman, M. Atikur, J. F. Lubna, S. Sarker, R. Khatun, S. Kumur Saha, M. Z. Rahaman, K. M. Hossain, M. Rasheduzzaman, and M. Z. Hasan. "First-Principles Study of the Physical Properties of CuV <sub>2</sub> S <sub>4</sub> under Pressure." <i>Physics of the Solid State</i> 64, no. 8 (2022).	2022
44.	Q1	Hasan, Wakil, Adeeb Mahamud Hossain, Md Rasheduzzaman, Md Atikur Rahman, Md Mukter Hossain, K. Rashel Mohammad, Raihan Chowdhury, Khandaker Monower Hossain, M. Moazzam Hossen, and Md Zahid Hasan. "Perovskite-structure TIBO <sub>3</sub> (B= Cr, Mn) for thermomechanical and optoelectronic applications: an investigation via a DFT scheme." <i>RSC advances</i> 12, no. 42 (2022): 27492-27507.	2022
45.	Q3	Rahman, Md Atikur, Ibrahim Kholil, Rukaia Khatun, Sushmita Sarker, Mahbub Hasan, Md Ashraf Ali, Md Zahidur Rahaman, Khandaker Monower Hossain, Md Ismail Haque, and Md Zahid Hasan. "High pressure study of new type of MAX phases: Hf <sub>2</sub> AB <sub>2</sub> (A= In, Sn)." <i>physica status solidi (b)</i> 260, no. 1 (2023): 2200102.	2022
46.	Q2	Khatun, Rukaia, Md Atikur Rahman, Khandaker Monower Hossain, Md Zahid Hasan, Md Rasheduzzaman, and Sushmita Sarker. "Physical properties of MAX phase Zr <sub>2</sub> PbC under pressure: Investigation via DFT scheme." <i>Physica B: Condensed Matter</i> 620 (2021): 413258.	2021
47.	Q2	Alam, M. Shahin, M. Atikur Rahman, M. Shahajan Ali, and M. Aftabuzzaman. "First-principles calculations to investigate structural and elastic properties of Y <sub>2</sub> C <sub>3</sub> under external pressure." <i>Computational and Theoretical Chemistry</i> 1202 (2021): 113320.	2021
48.	Q3	Khatun, Rukaia, Md Atikur Rahman, Md Zahid Hasan, and Khandaker Monower Hossain. "Effects of pressure on the structural, mechanical, anisotropic, and electronic properties of MgTi <sub>2</sub> O <sub>4</sub> via density functional theory." <i>The European Physical Journal B</i> 94, no. 5 (2021): 113.	2021
49.	Q2	Hasan, Md Zahid, M. A. Rayhan, Md Atikur Rahman, Md Rasheduzzaman, Jibon Krishna Modak, and Khandaker Monower Hossain. "Insights into the physical properties of inverse-Heusler alloy Cr <sub>2</sub> CoGa via density functional theory." <i>Physica Scripta</i> 96, no. 5 (2021): 055704.	2021
50.	Q2	Sarker, Sushmita, Md Atikur Rahman, and Rukayia Khatun. "Study of structural, elastic, electronics, optical and thermodynamic properties of Hf <sub>2</sub> PbC under pressure by ab-initio method." <i>Computational Condensed Matter</i> 26 (2021): e00512.	2021
51.	Q3	Miah, Md Khokon, Khandaker Monower Hossain, Md Atikur Rahman, Md Rasheduzzaman, S. K. Mitro, Jibon Krishna Modak, and Md Zahid Hasan. "Comprehensive study on the physical properties of tetragonal LaTGe <sub>3</sub> (T= Rh, Ir, or Pd) compounds: An ab initio investigation." <i>AIP Advances</i> 11, no. 2 (2021).	2021
52.	Q3	Kholil, M. I., M. T. H. Bhuiyan, M. Atikur Rahman, M. S. Ali, and M. Aftabuzzaman. "Effects of Fe doping on the visible light absorption and bandgap tuning of lead-free (CsSnCl <sub>3</sub> ) and lead halide (CsPbCl <sub>3</sub> ) perovskites for optoelectronic applications." <i>Aip Advances</i> 11, no. 3 (2021).	2021
53.	Q1	Kholil, M. I., M. T. H. Bhuiyan, M. Atikur Rahman, M. S. Ali, and M. Aftabuzzaman. "Influence of molybdenum and technetium doping on visible light absorption, optical and	2021

		electronic properties of lead-free perovskite CsSnBr <sub>3</sub> for optoelectronic applications." <i>RSC advances</i> 11, no. 4 (2021): 2405-2414.	
54.	Q3	Khatun, Rukayia, and S. Sarker. "Structural, elastic, electronic, optical and thermodynamic properties of MAX phase compound Zr <sub>2</sub> PbC under pressure: DFT based investigation." <i>Condens. Matter</i> 26 (2020): e00512.	2020
55.	Q4	Atikur Rahman, M., Most Rumpa Akter, M. Romana Khatun, Rajia Sultana, and MA Razzaque Sarker. "Synthesis and Characterization of High-Quality Polycrystalline Sample NiV <sub>2</sub> O <sub>6</sub> by Solid-State Reaction Technique." <i>Physics of the Solid State</i> 62, no. 6 (2020): 1024-1032.	2020
56.	Q3	Mostari, Farhana, Md Atikur Rahman, and Rukayia Khatun. "First principles study on the structural, elastic, electronic and optical properties of cubic 'half-Heusler' alloy RuVAs under pressure." <i>Int. J. Mat. Math. Sci</i> 2, no. 4 (2020): 51-63.	2020
57.	Q3	Naefa, Mst Jannatul, and Md Atikur Rahman. "First principles study of structural, elastic, electronic and optical features of the noncentrosymmetric superconductors SrMGe <sub>3</sub> (Where M= Ir, Pt, and Pd)." <i>Int. J. Mat. Math. Sci</i> 2, no. 2 (2020): 16-28.	2020
58.	Q3	Rahman, Md Atikur, Md Afjalur Rahman, and Abdur Razzaque Sarker. "Synthesis, Characterization and Pressure Effect on Structural and Mechanical Properties of MgBi <sub>2</sub> O <sub>6</sub> : Solid-State Route and DFT Study." <i>International Journal of Material and Mathematical Sciences</i> , 2(5), 71-86, 2020.	2020
59.	Q1	Rahman, Md Atikur, and Md Abdur Razzaque Sarker. "Synthesis, characterization and physical properties of high quality MgV <sub>2</sub> O <sub>6</sub> crystals by solid-state reaction and ab-initio methods." <i>Journal of Alloys and Compounds</i> 797 (2019): 630-639.	2019
60.	Q3	Chowdhury, Uttam Kumar, Atikur Rahman, Afjalur Rahman, Pretam Kumar Das, M. U. Salma, Shahjahan Ali, and Dayal Chandra Roy. "The physical properties of ThCr <sub>2</sub> Si <sub>2</sub> -type Ru-based compounds SrRu <sub>2</sub> X <sub>2</sub> (X= P, Ge, As): An ab-initio investigation." <i>Physica C: Superconductivity and its applications</i> 562 (2019): 48-55.	2019
61.	Q2	Salma, M. U., Md Atikur Rahman, Md Ibrahim Kholil, and Md Shahjahan Ali. "MgCu <sub>2</sub> -type laves phases CaPt <sub>2</sub> , SrPd <sub>2</sub> and SrPt <sub>2</sub> : A DFT based ab-initio investigation." <i>Solid State Communications</i> 296 (2019): 1-7.	2019
62.	Q3	Ali, Md Shahjahan, Md Atikur Rahman, and Md Zahidur Rahaman. "A theoretical investigation of ThCr <sub>2</sub> Si <sub>2</sub> -type Pd-based superconductors XPd <sub>2</sub> Ge <sub>2</sub> (X= Ca, Sr, La, Nd)." <i>Physica C: Superconductivity and its Applications</i> 561 (2019): 35-44.	2019
63.	Q1	Rahman, Md Atikur, M. Zahidur Rahaman, Md Lokman Ali, and Md Shahjahan Ali. "The physical properties of ThCr <sub>2</sub> Si <sub>2</sub> -type nickel-based superconductors BaNi <sub>2</sub> T <sub>2</sub> (T= P, As): an ab-initio study." <i>Chinese Journal of Physics</i> 59 (2019): 58-69.	2019
64.	Q3	Naefa, Mst Jannatul, and Md Atikur Rahman. "Physical properties of ThCr <sub>2</sub> Si <sub>2</sub> -type Ni-based compounds SrNi <sub>2</sub> M <sub>2</sub> (M= As and Ge): DFT based Ab-initio calculations." <i>Physica C: Superconductivity and its Applications</i> 560 (2019): 19-25.	2019
65.	Q1	Salma, M. U., and Md Atikur Rahman. "Physical properties of ThCr <sub>2</sub> Si <sub>2</sub> -type Rh-based compounds ARh <sub>2</sub> Ge <sub>2</sub> (A= Ca, Sr, Y and Ba): DFT based first-principles investigation." <i>International Journal of Modern Physics B</i> 32, no. 32 (2018): 1850357.	2018
66.	Q3	Rahman, Md Atikur, Md Zahidur Rahaman, Md Shahjahan Ali, and Md Abdur Razzaque Sarker. "Theoretical investigation on MgV <sub>2</sub> O <sub>6</sub> : ab-initio study." <i>Philosophical Magazine</i> 98, no. 22 (2018): 2077-2093.	2018
67.	Q2	Rahman, Md Atikur, Md Zahidur Rahaman, Mst Asma Khatun, and Md Abdur Razzaque Sarker. "First principles investigation of structural, electronic and optical properties of NiV <sub>2</sub> O <sub>6</sub> ." <i>Computational Condensed Matter</i> 15 (2018): 95-99.	2018
68.	Q2	Salma, M. U., and Md Atikur Rahman. "Study of structural, elastic, electronic, mechanical, optical and thermodynamic properties of NdPb <sub>3</sub> intermetallic compound:	2018

		DFT based calculations." <i>Computational Condensed Matter</i> 15 (2018): 42-47.	
69.	Q3	Rahaman, Md Zahidur, and Md Atikur Rahman. "Investigation of the physical properties of two Laves phase compounds HRh <sub>2</sub> (H= Ca and La): A DFT study." <i>International Journal of Modern Physics B</i> 32, no. 12 (2018): 1850149.	2018
70.	Q1	Rahaman, Md Zahidur, Md Lokman Ali, and Md Atikur Rahman. "Pressure-dependent mechanical and thermodynamic properties of newly discovered cubic Na <sub>2</sub> He." <i>Chinese journal of physics</i> 56, no. 1 (2018): 231-237.	2018
71.	Q2	Kholil, Md Ibrahim, Md Zahidur Rahaman, and Md Atikur Rahman. "First principles study of the structural, elastic, electronic, optical and thermodynamic properties of SrRh <sub>2</sub> laves phase intermetallic compound." <i>Computational Condensed Matter</i> 13 (2017): 65-71.	2017
72.	Q1	Rahaman, Md Zahidur, Md Atikur Rahman, and Md Abdur Razzaque Sarker. "Prediction of a new transition metal oxide MgRhO <sub>3</sub> with SrTiO <sub>3</sub> -type structure: Stability, structure and physical characteristics." <i>Chinese journal of physics</i> 55, no. 4 (2017): 1489-1494.	2017
73.	Q1	Rahaman, Md Zahidur, and Md Atikur Rahman. "Novel 122-type Ir-based superconductors BaIr <sub>2</sub> Mi <sub>2</sub> (Mi= P and As): A density functional study." <i>Journal of Alloys and Compounds</i> 711 (2017): 327-334.	2017
74.	Q1	Rahaman, Md Zahidur, and Md Atikur Rahman. "ThCr <sub>2</sub> Si <sub>2</sub> -type Ru-based superconductors LaRu <sub>2</sub> M <sub>2</sub> (M= P and As): An ab-initio investigation." <i>Journal of Alloys and Compounds</i> 695 (2017): 2827-2834.	2017
75.	Q2	Rahaman, Md Zahidur, and Md Atikur Rahman. "Superconductivity at ~ 0.049 K in Laves phase HfZn <sub>2</sub> predicted by first principles." <i>arXiv preprint arXiv:1605.04841</i> (2016).	2017
76.	Q3	Ali, Md Lokman, Md Zahidur Rahaman, and Md Atikur Rahman. "The structural, elastic and optical properties of ScM (M= Rh, Cu, Ag, Hg) intermetallic compounds under pressure by ab initio simulations." <i>International Journal of Computational Materials Science and Engineering</i> 5, no. 04 (2016): 1650024.	2016
77.	Q2	Rahman, Md Atikur, Md Zahidur Rahaman, and Md Abdur Razzaque Sarker. "First principles investigation of structural, elastic, electronic and optical properties of HgGeB <sub>2</sub> (BP, As) chalcopyrite semiconductors." <i>Computational Condensed Matter</i> 9 (2016): 19-26.	2016
78.	Q1	Rahman, Md Afjalur, Md Zahidur Rahaman, and Md Atikur Rahman. "The structural, elastic, electronic and optical properties of MgCu under pressure: a first-principles study." <i>International Journal of Modern Physics B</i> 30, no. 27 (2016): 1650199.	2016
79.	Q2	Rahaman, Md Zahidur, and Md Atikur Rahman. "Novel Laves phase superconductor NbBe <sub>2</sub> : A theoretical investigation." <i>Computational Condensed Matter</i> 8 (2016): 7-13.	2016
80.	Q3	Ali, Lokman, Zahidur Rahaman, Atikur Rahman, and Afjalur Rahman. "Pressure Effects on Structural, Elastic and Electronic Properties of MgRh Compound by Ab Initio Study." <i>Materials Focus</i> 5, no. 3 (2016): 268-274.	2016
81.	Q3	Rahman, Md Atikur, Md Zahidur Rahaman, and Md Nurush Samsuddoha. "A review on cuprate based superconducting materials including characteristics and applications." <i>American Journal of Physics and Applications</i> 3, no. 2 (2015): 39-56.	2015
82.	Q3	Atikur Rahman, Md, and Md Zahidur Rahaman. "Study on structural, electronic, optical and mechanical properties of MAX phase compounds and applications review article." <i>American Journal of Modern Physics</i> 4, no. 2 (2015): 75.	2015

## 5. Conferences (national and international conferences and seminars):

### Oral Presentations:

1. **Md. Atikur Rahman**, Md. Nadim Mahamud Nobin, Mst. Asma Khatun, “DFT Simulation to Study the Mechanical, Electronic and Optical properties of Double Halide Perovskites  $Cs_2TiAX_6$  (A= As, Sb; X =Cl, Br, I) for Optoelectronic Devices Applications at Ambient and Hydrostatic Pressure”, National Conference on Physics-2025, 6-7 February 2025, University of Rajshahi, Rajshahi-6205, Bangladesh, IIB-CP06.

2. Ananya Basak, Disha Roy, **Dr. Md. Atikur Rahman**, “Pressure Effect on the Physical Properties of 413-type MAX-Phase Compounds  $M_4AlC_3$  (M = Ti, Zr): A DFT Simulation”, National Conference on Physics-2025, 6-7 February 2025, University of Rajshahi, Rajshahi-6205, Bangladesh, IIB-CP09.

### Poster Presentations:

1. Disha Roy, Ananya Basak, **Dr. Md. Atikur Rahman**, “DFT Simulation to Study the Structural, Mechanical, Electronic, Optical and Thermodynamic Properties of Silicon-Based Materials  $SrT_2Si_2$  (where T=Zn, Pd, Ag)”, National Conference on Physics-2025, 6-7 February 2025, University of Rajshahi, Rajshahi-6205, Bangladesh, PP-28.

2. Antor Saha, Md. Shoriful Islam, **Dr. Md. Atikur Rahman**, “Pressure-induced lead-free halide double perovskite  $Cs_2TiGaCl_6$  for optoelectronic device applications: *Ab-initio* investigation” Conference on Computational Physics and Materials Science, in Honor of Professor Emeritus A. K. M. Azharul Islam, Condensed Matter Physics Lab Alumni, Department of Physics, University of Rajshahi, Rajshahi-6205, Bangladesh, April 20, 2025. PP-025.

3. Md. Shoriful Islam, Antor Saha, **Dr. Md. Atikur Rahman**, “Tuning of band gap of lead-free double-perovskite material  $Cs_2NaBiCl_6$  by applying pressure for optoelectronic device applications: A DFT simulation= Conference on Computational Physics and Materials Science, in Honor of Professor Emeritus A. K. M. Azharul Islam, Condensed Matter Physics Lab Alumni, Department of Physics, University of Rajshahi, Rajshahi-6205, Bangladesh, April 20, 2025. PP-024.

### 6. Supervision Thesis/Design Project at undergraduate Level since the last appointment

Sl.	No. of Student	No. of Project /Thesis	Design	Year/Period
1.	4	4	Project	2017(2011-2012)
2.	5	5	Project	2018(2012-2013)
3.	5	5	Project	2019(2013-2014)
4.	6	6	Project	2020(2014-2015)

7.

### 7. Supervision of Completed Graduate Research Work

Sl.	Level (Masters/M.Phil/ Ph.D.)	Thesis/Project Title	Year/Period

1.	Masters (Thesis)	Physical Properties of ThCr <sub>2</sub> Si <sub>2</sub> -type Rh-based compounds ARh <sub>2</sub> Ge <sub>2</sub> (A=Ca, Sr, Y and Ba): DFT Based First-principles investigation.	2016 (2014-2015) [Held in 2018]
2.	Masters (Thesis)	First Principles Study of Structural, Elastic, Electronic and Optical Features of the Non-centrosymmetric Superconductors SrMGe <sub>3</sub> (Where M= Ir, Pt, and Pd).	2018 (2016-2017) [Held in 2022]
3.	Masters (Thesis)	First Principles Study of Structural, Elastic, Electronic, Optical and Thermodynamic Properties of Pt <sub>3</sub> X (X = Ti, Cu).	2018 (2016-2017) [Held in 2022]
4.	Masters (Thesis)	Comprehensive study on the physical properties of tetragonal BaMn <sub>2</sub> X <sub>2</sub> (X= P, As, Sb) compounds: An <i>ab initio</i> investigation.	2019 (2017-2018) [Held in 2022]
5.	Masters (Thesis)	First-principles calculations to investigate elastic, electronic, optical, and thermodynamic properties of Pt <sub>3</sub> T (T = Nb, Ru, Rh, Pd, and Ag).	2020 (2018-2019) [Held in 2023]
6.	Masters (Thesis)	Tuning of band gap of double perovskite materials Ga <sub>2</sub> TiX <sub>6</sub> (X= Cl, Br) by applying pressure for optoelectronic device applications: A DFT based simulations.	2021 (2019-2020) [Held in 2023]
7.	Masters (Thesis)	Comparative exploration of physical features of La-based ternary intermetallic compounds LaM <sub>2</sub> Si <sub>2</sub> (M=Co, Cu, Rh, Pd, Ag, Ir, Pt, Au) through DFT simulation.	2021 (2019-2020) [Held in 2023]
8.	Masters (Project)	Structural, elastic, electronic and optical properties of new layered ternary compound SrCu <sub>2</sub> Ge <sub>2</sub> : a first principles investigation.	2016 (2015-2016) [Held in 2019]
9.	Masters (Project)	Structural, elastic, electronic and optical properties of new layered pnictides compound CaZn <sub>2</sub> Ge <sub>2</sub> : a first principle calculation.	2016 (2015-2016) [Held in 2019]
10.	Masters (Project)	Structural, Mechanical, Electronic, Mulliken atomic Populations and Optical Properties of Compound SrZn <sub>2</sub> Ge <sub>2</sub> .	2016 (2015-2016) [Held in 2019]
11.	Masters (Project)	Structural, Mechanical, Electronic, Mulliken atomic Populations and Optical Properties of Compound SrMn <sub>2</sub> Ge <sub>2</sub> .	2016 (2015-2016) [Held in 2019]
12.	Masters (Project)	Structural, elastic, electronic and optical properties of MAX phase compound Hf <sub>3</sub> AlC <sub>2</sub> under pressure: DFT based investigation.	2017 (2016-2017) [Held in 2021]
13.	Masters (Project)	Structural, elastic, electronic and optical properties of MAX phase compound Nb <sub>4</sub> SiC <sub>3</sub> under pressure: DFT based investigation.	2017 (2016-2017) [Held in 2021]
14.	Masters (Project)	DFT based investigation of structural, elastic, electronic and optical properties of MAX Phase compound Ta <sub>3</sub> AlC <sub>2</sub> under pressure.	2017 (2016-2017) [Held in 2021]
15.	Masters (Project)	An ab-initio study to Investigate the Structural, Elastic, Electronic and Optical Properties of Transition Metal Pt <sub>3</sub> T (T= Ga, Cd).	2017 (2016-2017) [Held in 2023]
16.	Masters (Project)	First Principles Study on the Structural, Electronic, Elastic and Optical Properties of lead-free Perovskites CsCaX <sub>3</sub> (X=F, Cl, Br).	2019 (2018-2019) [Held in 2022]

17.	Masters (Project)	Structural, Mechanical, Electronic, Optical and Thermodynamic Properties of Superconducting disilicides $YT_2Si_2$ (Y= Rh, Pd, Ir): DFTbased Comparative Study.	2019 (2018-2019) [Held in 2022]
18.	Masters (Project)	Physical Properties of $ThCr_2Si_2$ - type Compound $YT_2Si_2$ (T= Co, Ni and Ru): DFT based ab-initio Calculations.	2019 (2018-2019) [Held in 2022]
19.	Masters (Project)	A First Principle Study of Structural, Elastic, Electronic, Optical and Thermodynamic Properties of $ACuSb$ (A=Ca, Sr, Ba) Zintl Phase Compounds.	2020 (2019-2020) [Held in 2023]
20.	Masters (Project)	“First Principles Study on the Structural, Electronic, Mechanical, Optical, and Thermodynamic Properties of Half Heusler alloys $CoTSb$ (T = Ti, Zr, Hf)”	2020 (2019-2020) [Held in 2023]
21.	Masters (Project)	Pressure effect on the structural, elastic and electronic properties of boron (B) based MAX Phase compound $Hf_3PB_4$ .	2020 (2019-2020) [Held in 2023]
22.	Masters (Project)	First principle study on structural, mechanical and optical properties of superconducting disilicides $UT_2Si_2$ (T= Ru , Rh and Pd ).	2020 (2019-2020) [Held in 2023]

## 8. Research Grants Received (last fifteen years)

Sl.	Organization Offering the Grant	Project title	Period
1.	Pabna University of Science and Technology	Tuning of band gap of lead-free double perovskite materials $Cs_2TlSbX_6$ (X = Cl, Br, I) by hydrostatic pressure for optoelectronic device applications: First principles investigation”.	2025-2026
2.	Pabna University of Science and Technology	“DFT Simulation to Study the Mechanical, Electronic, Thermal and Superconducting Properties of borocarbides $RM_2B_2C$ (R= Y, La, Th and M= Pd, Pt)”.	2024-2025
3.	Pabna University of Science and Technology	<i>Ab-initio</i> Simulation on Structural, Mechanical, Electronic, Optical and Thermodynamic Properties of Disilicide Superconductors $ThX_2Si_2$ (X = Ru, Rh, Ir, Pt).	2023-2024
4.	Pabna University of Science and Technology	Comparative Study of the Physical Properties of Half-Metallic Lead free Perovskite Oxides $AMnO_3$ (A=Ca, Sr, Ba) by DFT Simulation”.	2022-2023
5.	Pabna University of Science and Technology	“Pressure effect on the structural, elastic, electronic, optical, and thermodynamic properties of B-containing MAX phases: $Hf_2XB_2$ (X = In, Sn)”.	2021-2022
6.	Pabna University of Science and Technology	The Structural, Elastic, Electronic, Optical and Thermodynamic Properties of $ThCr_2Si_2$ - type nickel-based superconductors $BaNi_2T_2$ (T=P, As): An <i>ab-initio</i> study.	2018-2019

7.	Pabna University of Science and Technology	Synthesis, Characterization and Physical Properties of $\text{CoCr}_2\text{O}_4$ by Solid-State Reaction and First Principles Method.	2019-2020
8.	Ministry of Science and Technology (R&D) research grant.	Growth of $\text{MgTa}_2\text{O}_6$ crystals by solid-state method for high efficiency device applications.	2016 - 2017
9.	Pabna University of Science and Technology	An <i>ab-initio</i> study on Structural, Electronic and Magnetic Properties of Iron and Cuprate based Superconductors.	2014-2015

**9. Teaching activities undertaken (course and laboratory) at undergraduate and graduate levels since the last appointment (last five years):**

Sl.	Course No.	Title of The Courses Taught	Level	No. of Students	(Lectures Per Week) or (Hours/week)	Year
1.	PHY 5104	Advanced Materials Science	Graduate	20, 28, 24	4	2016- 2018
2.	PHY 4203	Crystallography and Spectroscopy	Undergraduate	31, 40, 28	3	2016-2018
3.	PHY 4104	Non-Conventional Energy	Undergraduate	31, 40, 28	3	2016 -2018
4.	PHY 3201	Basic Solid State Physics	Undergraduate	40, 28, 31	3	2016-2018
5.	PHY 1101	Mechanics and Properties of Matter	Undergraduate	37, 27, 29, 35	3	2016-2019
6.	PHY 1251	Mechanics, Properties of Matter, Wave and Sound	Undergraduate	37, 37, 40	3	2016-2018
7.	PHY 2255	Electricity, Magnetism and Modern Physics	Undergraduate	45, 44	3	2017, 2018
8.	PHY 3106	Physics Lab	Undergraduate	40	9	2016
9.	PHY 3205	Physics Lab	Undergraduate	28	9	2017
10.	PHY 2104	Physics Lab	Undergraduate	31	9	2017
11.	PHY 2204	Physics Lab	Undergraduate	23	9	2018

**10. Contribution to the University Administration during the period the under review (last five years):**

- (a) Activities Assigned by University authorities in addition to own duties (mention period and nature of the duty): **Assistant Proctor (14.01.2025 to present)**
- (b) Hall Administration (mention period including position held): **Assistant Provost (2017-2018).**

### 11. Personal Details:

a)	Father's / Husband's Name	:	Md. Anisur Rahman
b)	Nationality	:	Bangladeshi (National ID No.: 2832583807)
c)	Present Address	:	Associate Professor, Department of Physics, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
d)	Mailing Address	:	Dr. Md. Atikur Rahman, Associate Professor, Department of Physics, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
e)	Permanent Address	:	Vill: BanurBhag, Post: HoridhaKholoshi, P.S: Naldanga, Dist: Natore, Bangladesh.
f)	Contact No.	:	+8801723051728

### 12. Name and Address of Two References with contact number:

a)	<b>Dr. Md. Abdur Razzaque Sarker</b> Professor Department of Physics University of Rajshahi, Rajshahi-6205, Bangladesh Phone: +8801914254278 Email:razzaque_ru2000@yahoo.com	b) <b>Dr. Md. Atiqur Rahman Patoary</b> Professor Department of physics University of Rajshahi, Rajshahi-6205, Bangladesh Phone: +88 01718-279653 E-mail: atiqurphysics@ru.ac.bd
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I certify that the statements made above are correct.

Applicant Signature

Dr. Md. Atikur Rahman

Professor

Department of Physics

Pabna University of Science and Technology

Pabna-6600, Bangladesh