

# Profile

1. **Name:** Dr. Md. Amir Hussain
2. **Department:** Physics
3. **Designation:** Assistant Professor (Stage-I)
4. **Date of Joining:** 19<sup>th</sup> February 2019
5. **Phone Numbers:** 7005148500
6. **E-mail id.:** hussainmakak@gmail.com
7. **Educational Qualifications:**



Qualification	Title/Course	University/College	Year
<b>Ph.D</b>	Electrical and optical properties of nanocrystalline PbS and Bi <sub>2</sub> S <sub>3</sub> thin films and their Junctions	Gauhati University, Guwahati	2014
<b>Post Graduate</b>	M.Sc (Physics)	Jamia Millia Islamia, New Delhi	2005
<b>Under Graduate</b>	B.Sc (Hons) Physics	Aligarh Muslim University, Aligarh	2003
<b>XII</b>	HSSLC	COHSEM	1999
<b>X</b>	HSLC	BOSEM	1997
<b>Any other</b>	B.Ed	Manipur University	2008

8. **Positions Held / Career Profile:** Teaching since 2019

9. **Teaching Experience:** 4 yrs

10. **Area of Specialization:** Condensed Matter Physics

11. **Courses and Subjects Taught:**

Courses	Subjects
B.Sc (I,II,III & IV Semesters) B.Sc (Hons) V & VI Semesters.	Mechanics, Thermal Physics and Optics, Electronics, Physics of Materials

12. **Publications: Journals/Book/Book Chapters**

SL No.	Title	ISSN/ISBN No.	Impact Factor
1	L. Rajen Singh*, <b>M. A. Hussain</b> , "The temperature dependent current-voltage characteristics of chemically	1584-8663	0.885

	prepared Al/(P)PbS Schottky barrier junction” <i>Chalcogenide Letters</i> Vol. 19(2), (2022) 131 – 142		
2	<b>M. Amir Hussain*</b> , L. Rajen Singh, S. Ranibala Devi “Studies on structural, optical and electrical properties of zn-doped PbS nanocrystalline thin film” <i>Chalcogenide Letters</i> Vol. 18(3), (2021) 103 – 111.	1584-8663	0.885
3	L. R. Singh*, <b>M. A. Hussain</b> , “Effect of doping concentration on the optical properties of nanocrystalline Zn doped pbs thin films deposited by CBDmethod” <i>Chalcogenide Letters</i> Vol. 17(11), (2020) 583 – 591.	1584-8663	0.885
4	<b>A. Hussain*</b> , “Temperature dependent current–voltage and photovoltaic properties of chemically prepared (p)Si/(n)Bi <sub>2</sub> S <sub>3</sub> heterojunction” <i>Egyptian journal of basic and applied sciences</i> , 3, (2016) 314–321.	2314-808X	.....
5	<b>A. Hussain*</b> , Heisnam Shanjit Singh, Atowar Rahman “Electrical characteristics of (n)Si/(p)PbS heterojunction prepared by chemical bath deposition technique” <i>Superlattices and Microstructures</i> , 89, (2016) 43-52.	0749-6036	2.658
6	<b>A. Hussain*</b> , A. Rahman “Electrical and photovoltaic characteristics of Ni/(n)Bi <sub>2</sub> S <sub>3</sub> Schottky barrier junction” <i>Superlattices and Microstructures</i> , 80 (2015) 39–52.	0749-6036	2.658
7	<b>A. Hussain</b> , Anayara Begum, Atowar Rahman, “Effects of annealing on nanocrystalline Bi <sub>2</sub> S <sub>3</sub> thin films prepared by chemical bath deposition” <i>Materials Science in Semiconductor Processing</i> , 21 (2014) 74–81	1369-8001	3.927
8	<b>A. Hussain</b> , Atowar Rahman, “Synthesis and electrical characteristics of Al/(p)PbS Schottky barrier junction”, <i>Materials Science in Semiconductor Processing</i> , 16 (2013) 1918–1924	1369-8001	3.927
9.	<b>A. Hussain</b> , A. Begum, A. Rahman, “Characterization of Nanocrystalline Lead Sulphide Thin Films Prepared by Chemical Bath Deposition Technique” <i>Arab J Sci Eng.</i> , 38 (2013) 169–174	2191-4281	3.08
10	A. Begum, <b>A. Hussain</b> , A. Rahman, “Structural and Optical Studies of Bismuth Sulphide Nanocrystalline Thin Films Prepared from Acidic Aqueous Bath” <i>Arab J Sci Eng.</i> , 38 (2013) 163–168	2191-4281	3.08
11	Anayara Begum*, <b>Amir Hussain</b> and Atowar Rahman, “Effect of deposition temperature on the structural and optical properties of chemically prepared nanocrystalline lead selenide thin films” <i>Beilstein J. Nanotechnol.</i> , 3, 2012 438–443.	2190-4286	3.649
12	A. Begum* , <b>A. Hussain</b> , A. Rahman, “ Preparation and characterization of bismuth sulphide nanocrystalline thin films by chemical bath deposition	1584-8663	0.885

	method in acidic aqueous media” <i>chalcogenide letters</i> vol. 8(4), (2011) 283 – 289		
13	<b>A. Hussain*</b> , A Begum and A Rahman, “Electrical and optical properties of nanocrystalline lead sulphide thin films prepared by chemical bath deposition” <i>Indian J Phys</i> 86(8), (2012) 697–701	0973-1458	1.947
14	<b>A. Hussain*</b> , A Begum and A Rahman Optical and electrical properties of bismuth sulphide thin film prepared in PVA matrix by chemical drop method <i>Journal of optoelectronics and advanced materials</i> , Vol. 12(5), (2010), 1019 - 1023	1841-7132	0.587
15	<b>A. Hussain*</b> , A Begum and A Rahman, “Studies on electrical and optical properties of Annealed and Unannealed Bismuth Sulphide thin films prepared by Chemical bath deposition. <i>Asian Journal of Materials Science</i> , 4(1), (2012), 28-33	1996-3394	.....
	<b>Book Chapter</b>		
1	<b>Thin Films and its Application: Solar Cell, Horizon, p(280-88), ISBN: 978-81-928118-3-3</b>		

### 13. Conference/Symposia/Workshops Attended /Organised

SL No.	Titles	Year	International/National/State Level
1	Paper Presented to “ <i>National conference on Emerging trends of Nanoscience in Modern Technology (ETONIMT)</i> ”, 16 <sup>th</sup> April, 2022, Ideal College, Imphal Manipur	2022	National
2	Participated in “ <i>one day state level workshop on Gender Sensitization</i> ”, 28 <sup>th</sup> January, 2021, Imphal College, Imphal.	2021	.....
3	Participated in the National Webinar on “ <i>The role of Science and Technology in Development</i> ”, 4 <sup>th</sup> November, 2020, Don Bosco College, Maram Manipur.	2020	National
4	Participated in “ <i>International E-Conference on New Frontiers in Science and Technology</i> ”, 9 <sup>th</sup> - 11 <sup>th</sup> July, 2020, Manipur University.	2020	International
5	Paper Presented to “ <i>Emerging Trends in nanomaterials &amp; Nanocomposites (NSETNN-2019)</i> ”, 11 <sup>th</sup> – 13 <sup>th</sup> October -2019, S. Kula Women’s College, Manipur	2019	National

6	Paper Presented to “Recent Trends in Information Technology” 15 <sup>th</sup> -16 <sup>th</sup> September 2015, Rajiv Gandhi University, Itanagar, Arunachal Pradesh	2015	National
7	Paper Presented to “ <i>International Conference on Material Science</i> ” (ICMS-2013), 21 <sup>st</sup> – 23 <sup>rd</sup> February, 2013, Tripura University	2013	International
8	Paper Presented to “ <i>The 2<sup>nd</sup> Saudi International Nanotechnology Conference</i> ” 11 <sup>th</sup> -13 <sup>th</sup> November, 2012 Riyadh, Saudi Arabia	2012	International
9	Paper Presented to “ <i>57<sup>th</sup> Annual Technical Session, Assam Science Society</i> ”, 16 <sup>th</sup> March 2012, Gauhati University, Guwahati.	2012	National
10	Paper Presented to “ <i>2<sup>nd</sup> International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2011)</i> ”. 8 <sup>th</sup> to 10 <sup>th</sup> December 2011, IIT Gauhati.	2011	International
11	Paper Presented to “ <i>A National Conference on Condensed Matter Physics (CMDAYS-2011)</i> ” 24 <sup>th</sup> to 26 August 2011, Department of Physics, Gauhati University, Guwahati.	2011	National
12	Paper Presented to “ <i>International Conference on Fundamental and Applications of Nanoscience &amp; Technology (ICFANT 2010)</i> ” 9 <sup>th</sup> to 11 <sup>th</sup> December 2010, Jadavpur University, Kolkata.	2010	International
13	Paper Presented to “ <i>7<sup>th</sup> National Conference in Physics, PANE 2010</i> ”, 5 <sup>th</sup> & 6 <sup>th</sup> October, 2010, Dept. of Physics, Manipur University, Manipur.	2010	National
14	Paper Presented to “ <i>National conference on Condensed matter Physics</i> ”, 22 <sup>nd</sup> to 23 <sup>rd</sup> March 2010, NEHU, Shillong.		National
15	Paper Presented to “ <i>55<sup>th</sup> Annual Technical Session, Assam Science Society</i> ”, 15 <sup>th</sup> February 2010, Gauhati University, Guwahati.	2010	National

**14. Staff training/ Development Programmes Attended Organised by University/other Institutions: Staff:**

<b>Refresher Courses / Orientation Programmes</b>	1. UGC-Sponsored Refresher Course ( <b>Physics</b> ), Manipur University, 9 <sup>th</sup> -21 <sup>th</sup> December-2019. 2. 4 Week Orientation Programme, TLC, RC University of Delhi. 3. Two - Week Refresher Course in “ <b>PHYSICS</b> ” from 10 <sup>th</sup> – 24 <sup>th</sup> April, 2022 TLC, RC University of Delhi.
<b>HRD Programmes</b>	1. 2.
<b>UGC- Faculty Improvement programmes</b>	1. 2.
<b>Staff training by University/other Institutions</b>	1. Youth & Climate Change, 27 <sup>th</sup> Oct.-3 <sup>rd</sup> Nov. 2021, TLC, RC University of Delhi. 2.

**15. Participation in Curriculum Restructuring:**

- i.
- ii.

**16. Corporate Participation at the College Level:**

- i. Programme Officer, NSS Unit-I from 28<sup>th</sup> April 2022 – Till Date.
- ii. Member- Imphal College Girls’ Health and Hygiene Management Committee from 23<sup>rd</sup> Feb. 2022 to till date.
- iii. Member- Website Management Committee of the Imphal College.

**17. Areas of Interest:**

<b>Academic</b>	Thin Films, Nanomaterials, Material Science, etc.
<b>Non Academic</b>	Reading, Playing, Gardening, etc..

**18. Any Other:**

- i. Examiner in Physics for 1<sup>st</sup>, 3<sup>rd</sup> and 5<sup>th</sup> Semester Examination, 2019 (Nov).
- ii. External Examiner in Physics Practical for 1<sup>st</sup>, 3<sup>rd</sup> and 5<sup>th</sup> Semester Examination, 2021 at Lilong Haoreibi College, Lilong.