**Dr. Tanveer Hasan**

[*Tanveerhasan09@gmail.com*](mailto:Tanveerhasan09@gmail.com) *(+91-9670119504)*

**Current Designation**: **Assistant Prof. (Level 12 /Stage III) in Physics**

**Permanent Appointment**: 5th Sept 2011 as a Lecturer in Physics

**Ph.D**. : May 2008 in the field of Spectroscopic study of some Orgnaometallic compounds

**Positions previously/currently hold/holding other than teaching**:-

1. Worked as an **Asst. OSD** of Lucknow University Evaluation cell since March 2013-June-2013. (Anex-1)
2. Worked as **Sports & Cultural officer** of the college since August 2014- June 2017. (Anex-2)
3. **Chaired the session** in the Invited talk in International conference jointly organized by School of management Science and Technology ***(SMS) & AKTU*** Lucknow in Nov-2017.(Anex-3)
4. **Chaired the session** in the Invited talk in International conference jointly organized by School of management Science and Technology ***(SMS) & AKTU*** Lucknow in Nov-2019.(Anex-4)
5. **Chaired the session** in the Invited talk in International conference jointly organized by School of management Science and Technology ***(SMS), UPCST & AKTU*** Lucknow in Feb-2020.(Anex-5)
6. **Organizing secretary** of national seminar in “Innovative Methods in Teaching Physics” organized by department of Physics, Shia Post Graduate College, Lucknow, on 5 and 6th March 2020.(Anex-6)
7. Working as a **Convener** of Feedback section **(IAC)** of College **NAAC** committee. (Annex-7)
8. Working as an **Asst. Proctor** of the college since Feb-2019 till date. ((Annex-8)
9. Working as **Assistant Superintendent (ASP)** in the college examination conduct cell of Lucknow University examinations since March 2017 till date. (Annexure-9).
10. Practical Examiner of Indira Gandhi National Open University ***(IGNOU)***. (Anexxure-10)
11. Practical Examiner of **CSJM University**Kanpur. (Anexxure-11)
12. Examiner of B.Sc. III Physics paper I in Lucknow University examinations 2017. (Anex-12)
13. Examiner of B.Sc. II Physics paper II in Lucknow University examinations 2013. (A-13)
14. **Paper Setter of** B.Sc. III semester Physics paper I in Lucknow University examinations in 2019. (Anex-14)
15. Examiner of B.Sc. I, II & III Physics Practical examinations in Purvanchal University Jaunpur in 2017. (Anex-15)
16. Examiner of B.Sc. II paper I and III & III Physics paper III in Lucknow University examinations 2019. (Anex-16)
17. Worked as an O**bserver** in JEE B.Ed. entrance examination held on 3-5-2017. (Anx-17).
18. Worked as the **Deputy Director** of Shia College Data Resource Cell (SCDRC) since October 2018 to May 2019. (Annex-18)
19. **Expert** of the selection committee of B.Sc. Physics Lecturer appointment in MAIHST, Mahmoodabad, Sitapur, affiliated to **CSJM University**Kanpur, on 17-07-2016. (A-19)
20. **Convener** of Feedback committee of college IQAC since March 2019 till date. (A-20)
21. **Member** of college research cell since March 2016 till date. (Anex-21)
22. Working as the **member** of Extension Activity committee of college IQAC since 2019 till date. (A-22)
23. Worked as an **expert** of selecting college carom team in 2019. (Anex-23)
24. **Member** of the college IQAC sports committee since March 2016 till date. (Anex-24)
25. Worked as **City Center Officer** in CPMT entrance examination 2014 in Varanasi conducted by University of Lucknow. (A-25)

**Orientation and Refresher Courses Performed**

* ***Orientation program*** in 2013 from UGC-ASC Lucknow University Lucknow, from May-01 to May-21.
* ***Refresher course*** (Interdisciplinary) in 2015 from UGC-HRDC- Ranchi University, Ranchi, from Aug-04 to Aug-24.
* ***Refresher course*** (Physics) in 2018 from UGC-HRDC- Allahabad Central University, Allahabad, from Nov-12 to Dec-02.
* ***Refresher course*** (Physics) in 2020 from UGC-HRDC- University of Lucknow, Lucknow, from Feb-16 to Feb-29.

*contd…*

**Published Papers (Total 21 till Dec 2020)**

1. Vibrational dynamics of the Organometallic compound triarylorganoantimony(V) SbPh3[O2CC(OH)Ph2]2 ,***Tanveer Hasan****,* P K Singh, R Misra, P Raj and Neeraj Misra, *Pramana Journal Physics,* Vol. 69 2007, 875-880. *[Peer reviewed]*

2. Normal coordinate analysis and quantum chemical study of tris(*p*-fluorophenyl)antimony di(*N*-phenylglycinate)[(*p*-FC6H4)3Sb(O2CCH2NHC6H5)2], T***anveer Hasan***, P K Singh, K Singhal, P Raj and Neeraj Misra, *Pramana Journal Physics*, Vol. 69, No. 4, 2007, pp. 675–680. *[Peer reviewed]*

3. Vibrational and Quantum Chemical Study of Triphenylantimony(V)-o-salicylate, ***Tanveer Hasan***, P K Singh, K Singhal, P Raj and Neeraj Misra, *E-Journal of Chemistry,* Vol.5, No.4, 2008, 723- 735. *[Peer reviewed]*

4. FT-IR spectra and vibrational spectroscopy of Andrographolide,P.K. Singh, ***Tanveer Hasan***, Onkar Prasad, Leena Sinha, Kanwal Raj and Neeraj Misra, *Spectroscopy*,Vol 20, Number 5-6/2006, 275-283. *[Peer reviewed]*

5. Vibrational analysis of deoxy-andrographolide using MM/QM methods,P.K. Singh, ***Tanveer Hasan***, Onkar Prasad, Leena Sinha, Sudha Jain, Kanwal Raj, N. Sundaraganesan, Neeraj Misra, *Spectroscopy*, Issue Volume 21, Number 5-6 / 2007, 279-292. *[Peer reviewed]*

6. Vibrational Dynamics of the Diterpene-Neoandrographolide, P. K.Singh, ***Tanveer Hasan*** and Neeraj Misra, *E-Journal of Chemistry*, 2009, 6(1), 183-188.  *[Peer reviewed]*

7. Vibrational Dynamics and potential energy distribution of two well known Neurotransmitter Receptors: TYRAMINE and DOPAMINE HYDROCHLORIDE, Shamoon Ahmad Siddiqui, Apoorva Dwivedi, P. K. Singh, ***Tanveer Hasan*,** Sudha Jain, N. Sundaraganesan, H. Saleem and Neeraj Misra, *Journal of Theoretical and Computational Chemistry*, Vol. 8, No. 3 (2009) 433–450. *[Peer reviewed]*

8. Molecular Structure, Vibrational Spectra and Potential Energy Distribution of Colchicine Using ab Initio and Density Functional Theory ,Shamoon Ahmad Siddiqui, Apoorva Dwivedi, Anoop Pandey, P. K. Singh, ***Tanveer Hasan***, Sudha Jain and Neeraj Misra*, J. Comput. Chem. Jpn*., Vol. 8, No. 2, pp. 59–72 (2009). *[Peer reviewed]*

9. Vibrational and Quantum Chemical Study of Triphenylantimony (V) Benzilate SbPh3 [O2CC (OH) Ph2]2, ***Tanveer Hasan***, P. K. Singh and Shamoon Siddiqui , 2010, *S-JPSET*, Vol. 1, 2010, Issue 1, .pg-11-16. *[Peer reviewed]*

10. Molecular Structure, Vibrational Spectra and Potential Energy Distribution of Protopine using abinitio and Density Functional Theory, S. A. Siddiqui, A. Dwivedi, P. K. Singh, ***Tanveer Hasan***, S. Jain, O. Prasad and N. Misra*, Journal of Structural Chemistry*, Vol. 50, No. 3, 2009, 411-420. *[Peer reviewed]*

11. Molecular Structure, Vibrational Spectra of Glycozolidal (2,7-dimethoxy-9H-carbazole-3-carbaldehyde, C15H13NO3), Using Density Functional Theory, ***Tanveer Hasan***, P.K. Singh and Neeraj Misra, *Arch. Phy. Res*, 2012, 3 (5), 378-386.

12. FTIR spectra, Vibrational Spectroscopy of two Esters derivatives C9H10O2 and C9H9ClO2 of Benzene using DFT and HF methods, ***Tanveer Hasan***, *Arch. Phy. Res*., 2014, 5 (2):45-56.

13. Electronic structure, Non-linear optical properties and Vibrational analysis of Ethyl benzoate using DFT, ***Tanveer Hasan***, P K Singh, *S-JPSET*, 2014, 5, 17-28. *[Peer reviewed]*

14. An investigation on structural, vibrational and nonlinear optical behavior of 4b,9b-dihydroxy-7,8-dihydro-4bH-Indeno[1,2-b] benzofuran-9,10(6H,9bH)-dione: A DFT study, ***Tanveer Hasan***, Sayed Hasan Mehdi, Raza Murad Ghalib, P K Singh and Neeraj Misra, *Journal of Chem. Sc*., 2015, DOI 10.1007/s12039-015-0984-x. *[Peer reviewed]*

15. Vibrational Investigation of “2-Arsanyl-Pyridine” Using First Principle, ***Tanveer Hasan*** and P.K. Singh, *S-JPSET* : Vol. 9, Issue 1, ISSN : 2229-7111, Feb-2017, Pg 1-4. *[Peer reviewed]*

16.Normal Mode Analysis, Electronic Parameters and molecular docking study of 3,5,4’-Trihydroxy-6,7-Dimethoxy-Flavone (Eupalitin) using First Principle, ***Tanveer Hasan***, Raza Murad Ghalib, Sayed Hasan Mehdi, P K Singh and S S R Baqri, *Asian J. Research in Chem.*, 2017; 10(6):789-797, DOI:10.5958/0974-4150.2017.00132.8. *[Peer reviewed]*

17. Vibrational Study and Electronic Parameters of "2-Diphenylphosphanyl-6-fluoro-pyridine"using First Principle, ***Tanveer Hasan***, P.K. Singh and S.H. Mehdi, *S-JPSET* : Vol. 9, Issue 1, ISSN : 2229-7111, Dec-2017, Pg 125-130, DOI : 10.18090/samriddhi.v9i02.10873. *[Peer reviewed]*

18.Vibrational Spectra, NBO, NLO analysis and Molecular Docking study of “3a,8a-dihydroxy-2-thioxo-1,3,3a,8a-tetrahydroindeno[1,2-d]imidazol-8(2H)-one”, using DFT, ***Tanveer Hasan***, Raza Murad Ghalib, Sayed Hasan Mehdi, P K Singh, Abhishek Kumar and Neeraj Misra, *Journal of Structural Chemistry, vol-*59-Issue-5, pages-1078-1087, Sept-2018. DOI: 10.26902/JSC20180509. *[Peer reviewed]*

19. 2,2′‑(2‑Oxopropane‑1,3‑diyl)bis‑(2‑hydroxy‑*1H*‑indene‑1,3(*2H*)‑dione):synthesis, crystal, electronic and molecular docking studies, Raza Murad Ghalib, Syed Hasan Mehdi, Tanveer Hasan3, Anoop Kumar Gupta, *SN Applied Sciences (springer link)*, (2019) 1:351, <https://doi.org/10.1007/s42452-019-0366-y>. *[Peer reviewed]*

20. Vibrational Analysis of “Di methyl bipyridinylZinc (0) [C12H14N2Zn]”: A DFT Approach, Tanveer Hasan, P K Singh and S H Mehdi, *Samridhi,S-JPSET*: Vol-11,Issue- 1, ISSN:2229-7111(print) and ISSN:2454-5767(online), pg-no-17-24, Aug-2019. *[Peer reviewed]*

21. Normal mode analysis, Electric Parameters, NLO properties & Molecular docking study of “Butein, 2',3,4,4'-Tetrahydroxychalcone: A DFT approach”Tanveer Hasan, Syed Hasan Mehdi, Syed Shabihe Raza Baqri, Pramod Kumar Singh (*communicated in August 2021 to SAMRIDHI Journal of Physics*). *[Peer reviewed]*

**Oral/Poster Paper/ Session Chair/ Invited Talks etc.**

* 22 Oral/ Poster paper presentations
* 3 Session chair in International seminar SPEEDS in 2017, 2019 and 2020.
* Invited talk in MAIHST Mahmoodabad, Sitapur, in 2012, 2013.

**Work as Reviewer**

I have given my services as reviewer in some research Journals like Spectro Chimica Acta Part B, E Journal of Chemistry & Publons.

*contd…*

**List of Invited Lectures/Conferences/Seminars/Workshops etc.**

|  |  |  |  |  |
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|  |  |  |  |  |
| **S.No** | **National/International** | **Title** | **Conducting.** | **Year** |
|  |  |  | **Agency/Instt** |  |
| 1 | International | Carbon Foot prints.. | SMS-SPEEDS, Lko | 22-11-2015 |
|  |  |  |  |  |
| 2 | National | The Science and tech | Deptt. Of Pol Sc. |  |
|  |  | in emerging India. | University of | 30-08-2015 |
|  |  |  | Lucknow & RaJiv Gan |  |
|  |  |  | Study Circle |  |
|  |  |  |  |  |
| 3 | International | Quantum…of | UP-CST, IE & SMS | 20-11-2016 |
|  |  | 2-Arsanyl Pyridine | SPEEDS |  |
|  |  |  |  |  |
| 4 | National | Problems regarding | LUACTA & Mumtaz |  |
|  |  | Higher education… | P G college Lko. | 09-11-2016 |
|  |  |  |  |  |
| 5 | National | Importance of | SR-Inst of M &Tech | 14-12-2016 |
|  |  | Rooftops solar panel | & Bharat R D LKO |  |
|  |  | …. |  |  |
|  |  |  |  |  |
| 6 | International | Study of spectroscopic | SMS, IE & AKTU LKO | 12-10-2017 |
|  |  | behaviour of 2-diphenyl.. | SPEEDS |  |
|  |  |  |  |  |
| 7 | International | Session chair | SMS,IE & AKTU LKO | 12-10-2017 |
|  |  |  | SPEEDS |  |
|  |  |  |  |  |
| 8 | National | Hurdles in Science | Shia |  |
|  |  | ..Higher education… | P G college Lko. | 10-10-2018 |
|  |  |  |  |  |
| 9 | International | Comparative study of | Shia P Gcollege and | 13/01/2019 |
|  |  | electronic, electrical | IMHRC LKO |  |
|  |  | and thermo……. |  |  |
|  |  |  |  |  |
| 10 | National | Mahatma Gandhi: | Deptt of History& AC | 21-22-02-2019 |
|  | (Participated) | Kal aur aaJ | Shia P Gcollege LKO |  |
|  |  |  |  |  |
| 11 | International | Session chair | SMS,IE & AKTU LKO | Feb-6&7-2020 |
|  |  |  | SPEEDS |  |

**List of E-contents (Total -22)**

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| --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |
| **S. No.** | **Topic** | **Class** | **Subject** | **Semester** | **Paper** |
|  |  |  |  |  |  |
| 1 | Amperes law and | **B.Sc.** | **Physics** | III | I |
|  | its applications |  |  |  |  |
|  |  |  |  |  |  |
| 2 | Basics of Dielectrics | **B.Sc.** | **Physics** | III | I |
|  | and Capacitors |  |  |  |  |
|  |  |  |  |  |  |
| 3 | COLOUMBS LAW | **B.Sc.** | **Physics** | III | I |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 4 | Dia-para and Ferromagnetism | **B.Sc.** | **Physics** | III | I |
|  | , Langiuns theroy of daimagnetism |  |  |  |  |
|  |  |  |  |  |  |
| 5 | ELCTRICAL POTENTIAL | **B.Sc.** | **Physics** | III | I |
|  | AND FIELD OF DIPOLE-QUADRUPOLE-ETC |  |  |  |  |
|  |  |  |  |  |  |
| 6 | Faraday law of EMI and Lenz law | **B.Sc.** | **Physics** | III | I |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 7 | GAUSS LAW AND ITS APPLICATIONS | **B.Sc.** | **Physics** | III | I |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 8 | Hysterisis and its energy evaluation | **B.Sc.** | **Physics** | III | I |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 9 | Induced electric field and vector | **B.Sc.** | **Physics** | III | I |
|  | potential & Current in continuous media |  |  |  |  |
|  |  |  |  |  |  |
| 10 | Magnetic properties of matter | **B.Sc.** | **Physics** | III | I |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 11 | Magnetic-force, Biot-Savart-law | **B.Sc.** | **Physics** | III | I |
|  | and its applications |  |  |  |  |
|  |  |  |  |  |  |
| 12 | Maxwell equations, Electromagnetic | **B.Sc.** | **Physics** | III | I |
|  | waves in free space and Poynting vector |  |  |  |  |
|  |  |  |  |  |  |
| 13 | Motion of electron in changing | **B.Sc.** | **Physics** | III | I |
|  | magnetic field and Betatron |  |  |  |  |
|  |  |  |  |  |  |
| 14 | Moving coil galvanometer theory | **B.Sc.** | **Physics** | III | I |
|  | and working, logarithmic decrement |  |  |  |  |
|  |  |  |  |  |  |
| 15 | Mutual Induction and its | **B.Sc.** | **Physics** | III | I |
|  | experimental calculation |  |  |  |  |
|  |  |  |  |  |  |
| 16 | Nonuniform polarisation, Calssius mosotti | **B.Sc.** | **Physics** | III | I |
|  | equation and polarisabilities |  |  |  |  |
|  |  |  |  |  |  |
| 17 | Self Induction, energy stored | **B.Sc.** | **Physics** | III | I |
|  | and Rayleigh's method |  |  |  |  |
|  |  |  |  |  |  |
| 18 | The magnetic scalar and vetor | **B.Sc.** | **Physics** | III | I |
|  | potentials and its applications |  |  |  |  |
|  |  |  |  |  |  |
| 19 | Width, Height and Junction capacitance of potential barrier of PN Junction diode | **B.Sc.** | **Physics** | V | I |
|  | , AC and DC resistance |  |  |  |  |
|  |  |  |  |  |  |
| 20 | Transistor Biasing cicuits and | **B.Sc.** | **Physics** | V | I |
|  | formulae in brief |  |  |  |  |
|  |  |  |  |  |  |
| 21 | Feedback in amplifiers | **B.Sc.** | **Physics** | V | I |
|  |  |  |  |  |  |
| 22 | CB,CE and CC input and output | **B.Sc.** | **Physics** | V | I |
|  | characteristics of NPN transistor |  |  |  |  |

**Awards**

1. Have been awarded by “***Sir Richard Sermon Award***” for best teaching by Youth Hostels Association of India-Shane-Awadh Unit, Lucknow on the occasion of Republic day 25 January 2018. (Annexure-23)

2. Have been awarded with “***Prof. M. M. Husain Memorial award***” for best teacher in Physics, on 03 March 2020. (Annex-24)

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**Dr. Tanveer Hasan**

Deptt. of Physics

Shia P. G. college Lucknow.