

FACULTY PROFILE



Name: Dr. Mudit Prakash Srivastava

Designation: Assistant Professor

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➤ **Work Experience:** 16 Years

➤ **Professional Qualification:**

Degree	Institute/University	Specialization	Year of Passing
PGDM	Institute of Management Education, Ghaziabad U.P.	Marketing-IT & Telecommunication	2009
Ph.D.	V.B.S. Purvanchal University, Jaunpur, U.P.	Condense Matter Physics	2007
M.Sc.	V.B.S. Purvanchal University, Jaunpur, U.P.	Physics	2002
B.Sc.	V.B.S. Purvanchal University, Jaunpur, U.P.	PCM	2000

➤ **Research Interest:**

- Lattice Dynamics and Crystal structure
- Phonon Properties
- Materialistic Properties
- Nanotechnology Thin Film

➤ **Publications (Journals & Conferences):**

1. Mudit P. Srivastava & Awanish Kr. Singh, "Effect of Titanium Dioxide in Human's daily life Application: A Review" Gradiva Review Journals, Vol. 8, Issue 5, pp-896-899, May 2022. (An UGC- Care Approved Group -II Journals).
2. Ramya D. , Krishnakumari A. , P.T. Dinesh kumar , **Mudit Prakash Srivastava** , L. Vadivel Kannan , G. Puthilibai , P. Manoj Kumar , " **Investigating the influence of nanoparticle disbanded phase changing material (NDPCM) on the working of solar PV Materials**" Today: Proceedings,

<http://www.elsevier.com/locate/matpr> Dec 6,2021, Vol. 56 Part-3

<https://doi.org/10.1016/j.matpr.2021.11.419> (Scopus Index)

3. Awanish Kr. Singh, Mudit P. Srivastava and S.P. Singh, Int. J. Advanced Sc. And Research, Vol.6, Issue 1, pp. 42-46, (2021). (UGC Approved) doi.org/10.37897.GRJ.2022.V8I12.22.50636.
4. S.P. Singh, Mudit P. Srivastava and Awanish Kr. Singh, Int. J. Future Generation Communication and Networking, Vol.14, No.1, pp. 99-106, (2021), (ESCI) (Web of Sciences Index science- 2021)
5. U.C. Srivastava, M.P. Srivastava "Lattice Dynamical Study of RbF by Use of (VTBFS) Model Potential" *Journal of Science and Arts, Year 19, No. 1 (46), pp-235-242, March 2019. (ISSN: 1844-9581) Romania.* (ESCI) (Web of Science Index science 2015)
6. S.P. Singh, Mudit P. Srivastava, Awanish K Singh "Phonon dispersion properties of Europium Oxide (EuO)" *International Journal of Advanced Science and Research, Vol. 3, Issue 6, pp- 29-32, Nov. 2018 (ISSN: 2455-4227)* (UGC Approved).
7. Mudit P. Srivastava, A.N. Pandey, K.S. Upadhyaya, "Phonon vibrational properties of CsCl at 298K" *IJERM, Vol. 5, Issue 6, pp- 27-30, April 2018 (ISSN: 2348-4918)* (UGC Approved No. 48708).
8. Srivastava U.C., Srivastava M.P., Gaurav S. "Phonon study of Zirconium Oxide (ZrO₂) by using (VTBFS) Model" "International Journal of Current Research" Vol 8, Issue 10, pp-39775-39781, Oct. 2016 (ISSN:0975-833X). (Scopus Index- 2015)
9. Mudit P. Srivastava, "Van-der Waals three body force shell effect on SOEC-TOEC and Cauchy discrepancy of CsI" Scholars Research Library, "Archives of Physics Research" Vol 5(5):1-6 2014 (ISSN:0976-0970) USA.
10. U.C. Srivastava, M.P. Srivastava, K.S. Upadhyaya "Lattice dynamical investigation of RbI" Scholars Research Library, "Archives of Physics Research" Vol 5(6):12-18, 2014 (ISSN:0976-0970) USA.
11. Mudit P. Srivastava, A.N. Pandey, K.S. Upadhyaya, "Lattice Dynamical Properties of CsI (RT)" *International Journal of Advanced Research, (IJAR), Vol.1, Issue 6, pp.259, 2013 (ISSN-2320-5407)*
12. S.K. Shukla, M.P. Srivastava and K.S. Upadhyaya "Crystal Dynamic Study of CsCl structured crystal by application of VTSM: An application to CsI" *Asian Journal of Physical Sciences, Vol. 1, No-2 , pp. 84-104, 2012 .(ISSN- 2278-4365) (Scopus Index & UGC Index)*
13. M.P. Srivastava and Awadhesh Kumar; Phonon Dynamical Behaviour of Cs Cl at Room temperature. (IJAST, Vol 1, Issue 2 p-80-83, Dec. 2011)
14. Upadhyaya K.S., Pandey A., DM. Srivastava "A study of Phonon properties of Uranium mono-chalcogenides: US as an example" *Chinese Jour. Of Physics, Vol. 44 (2), PP-127-136, 2006. (SCI Indexed with Impact Factor IP-3.95).*
15. K.S. Upadhyaya, A. Pandey, Mudit Srivastava, "Lattice vibrational properties of transition metal carbides (TiC, ZrC and HfC)" *Pramana Jour. Of Physics Vol. 64, No.2, pp-299-304, Feb. 2005. (SCI and Scopus Indexed, With IP-2.69)*
16. M.P. Srivastava, R.K. Singh, A.N. Pandey and K.S. Upadhyaya; Lattice Dynamics of Cesium Chloride at 78^o K. *Jour. PAS, Vol.11, pp 224-229. (2005)*
17. R.K. Singh, M.P. Srivastava, A.N. Pandey and K.S. Upadhyaya; Phonon Anomalies in Intermediate Valence Compounds *Sms. Jour. PAS, Vol.11, pp 207-212, (2005).*

18. Ajeet Gupta, Mudit P Srivastava, D. K. Rana, "2nd International Conference on Advanced Functional Material and Devices (AFMD-2023)" Organized by IQAC and Department of Physics, ARSD College, University of Delhi, **(Springer Sponsored)** Date: 13th – 15th March 2023. **Activity: Poster Presentation.**
19. Avaneesh Kumar, Mudit P Srivastava, D. K. Rana, "2nd International Conference on Advanced Functional Material and Devices (AFMD-2023)" Organized by IQAC and Department of Physics, ARSD College, University of Delhi, **(Springer Sponsored)** Date: 13th – 15th March 2023. **Activity: Oral Presentation.**
20. Harshit Sharma, A K Singh, Mudit Prakash Srivastava, and Prabhishek Singh: "Tracking scientific Authenticated Computing Simulation (Paper ID – 52)" "2ND International Conference on Innovative Sustainable Computational Technologies (CISCT2022) (Technically Sponsored by IEEE UP Section, Conference Rec. No. #55310) Organized by: Graphic Era Deemed to be University, Dehradun Date: December 23rd – 24th, 2022.
21. Mudit P. Srivastava, "International E- Conference on Current & Futuristic Approach in Science & Technology" 15-16 April, 2022, held at School of Basic Science & Technology, IIMT University, Meerut, U.P. India.
Activity: Paper Presentation
22. Mudit P. Srivastava, "Webinar Series on Advances in Materials Science and Technology (WSAMST-2020)" 22-26 June 2020, Organised by Department of Applied Science and Humanities (Physics), School of Engg., University of Petroleum and Energy Studies, Dehradun. (2020) India.
23. Mudit P. Srivastava; "Cesium Chloride ke Phonono ka Pradaeshan Khand" "*National Seminar on Application of Technical Terminology in Modelling Optimization and Computing in Sciences and Technology*", 26-28 April, Held at SRM IST, Ghaziabad, **Sponsored by Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Deptt. Of Higher Education, Govt. Of India** (2019), **Activity:** Paper Presentation.
24. Mudit P. Srivastava, and Awnish K. Singh; "Phonon Dynamical study of Europium Sulphide (EuS): Harmonic properties and Pressure Effect" "*National Symposium on Applied Spectroscopy: Biology and Medical Sciences*", 19-20 February, Organised by Deptt. Of Physics, Udai Pratap (Autonomous) College, Varanasi. **Sponsored By** Deptt. Of Bio-Technology, Govt. Of India (Under Star College Scheme) (2019), India. **Activity:** Poster Presentation
25. Mudit P. Srivastava, and Awnish K. Singh "Crystal Dynamics and Structural study of Europium Sulphide (EuS): Elastic behaviour and Pressure Effect" "*National Symposium on Advanced Materials Science*", 07-08 December held at Deptt. Of Physics, Deen Dyal Upadhyaya Gorakhpur University. (2018), India.
Activity: Poster Presentation
26. Kalpana Patel, Mudit P Srivastava, A. K. Singh" Characteristics of Equatorial..C/NOFS Over the Indian Region 2014" *International conference on Global Initiatives in Applied Sciences and Green Technologies GIAGT-2016*, held at SRM University in collaboration with SERS during 09-11 Sept.,(2016)
Activity: Poster Presentation
27. Awnish K. Singh, Mudit P. Srivastava, and K.S. Upadhyaya; "On the study of thermal and vibration properties of Uranium Arsenide" "*National Conference on Functional Materials*", 10-12 March held at Deptt. Of Physics, Deen Dyal Upadhyaya Gorakhpur University. (2016), India.
28. Mudit P. Srivastava, Kalpana Patel and K.S. Upadhyaya "A new scientific approach on the study of vibrational properties of Rubidium Chloride" "*National Conference on VISTAS of Scientific approach for welfare of Society*", 30-31 March held at K. N. P. G. College, Bhadohi, Dept. Of Higher Education, Govt. Of Uttar Pradesh, (2016), India. **Activity:** Poster Presentation

29. Mudit P Srivastava, "Phonon Dispersion Curves of CsCl at 298 K An Application to VTSM Model" *Conference on Advance Technique and Devices in Mathematics and Physical Sciences (CATDMP-2015)* held at SRM University, Delhi-NCR Campus, Ghaziabad (U.P.) (2015), India.

Activity: Poster Presentation

30. Mudit P Srivastava; Role of Renewable Energy in India. "**National Conference of Biofuels**", Vol.1, Issue1, IJAST, held at IIMT Engg. College, Meerut (U.P.) (2012), India.

➤ **Patent published and granted:**

1. **Patent Published:** AN IoT BASED SOLAR PHOTOVOLTAIC MONITORING SYSTEM WITH AUTOMATIC DUST REMOVING PROTECTOR OF PHOTOVOLTAIC SOLAR PANEL. (National Patent) (Patent Application No. 202211075975), **Status –Published in 27th Dec. 2022**
2. **Patent Published:** MACHINE LEARNING TECHNIQUE AND SYSTEM FOR SOLVING A PREDICTION PROBLEM. (National Patent) (Patent Application No. 202141047297), **Status –Published in 5th Nov. 2021**

➤ **Books and Books Chapters:**

1. Book Chapter: Vijay Kumar, Mudit Prakash Srivastava: "**Approved metal nanoparticles as nanocarriers based nano medicine in clinical use**" published in the book titled: "**World 2023 Wide Outcome on Research and Latest Development**" edited by Dr. G. PUTHILIBAI and Dr. S. VASUDHEVAN and Published by ESN Publication, Chennai, India. ISBN No: 978-93- 95196-75-8, August, 2023

➤ **Awards and Achievements**

1. Certified member of "**Indian Physics Association**", Bombay.
2. Certified Trainer of "**CISCO Networking Academy Course**" under GGS Indraprastha University, Kashmiri Gate on Nov. 14 2008.
3. **Certified Under "U.G.C. Remedial Assistance Programme"** in Department of Physics, K.N.P. Govt. College, Gyanpur, SRN. UP From 2003-05
4. "**Industrial Exposure in Telecom Industry Equipment**" with channel partner of Panasonic, New Delhi from 2008-2010.

➤ **Workshops/Seminars/FDPs**

1. One Week - "FDP on "**Blended Learning and Flipped Classrooms**", 16th- 20th Oct 2023, Online Mode, NITTTTR Chandigarh.
2. 10-Days Online FDP on "**Creating an Inclusive Learning Environment**", held from 24th July 2023 to 3rd Aug 2023, organized by Department of Physics, SRM Institute of Science and Technology.
3. **One Week Online FDP on "Academic Writing and Online Resources for Research"** 27th June – 2nd July, 2022, organized by Vardhman College, Bijnor U.P. in Collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi.

4. One day “**Online Workshop on Planetary Exploration of Moon: Findings from Indian Remote Sensing Mission**”, 25th May 2022, Conducted by Indian Institute of Remote Sensing, SRMIST Delhi-NCR Campus. By ISRO, Department of Space, Govt. of India.
5. Five days online Faculty Development Program on “**UHV Refresher -1 Part-1**” 21st Feb -25th Feb 2022, organized by AICTE.
6. Five days online Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**” 24 May -28 May 2021, organized by AICTE.
7. One day “*International Webinar on Emerging Trends in Physics and its Application in Agriculture*”, 29th June, Organised by Dept. Of Physics, College of Basic Science and Humanities, CCS Haryana Agricultural University, Hisar, Haryana, India (2020), India.
8. 5- days “*Webinar Series on Advances in Materials Sciences and Technology*”, 22 - 26 th June, Organised by Dept. Of Applies Science and Humanities (Physics), School of Engineering, University of Petroleum and Energy Studies, Dehradun, India (2020), India.
9. 3-days “*International Workshop on Joint Modernistic & Innovative Technology*”, 04-06 th Aug., Organised by Deptt. Of Physics, Seth Jai Prakash Mukund Lal Engg. & Technology, Radaur, Yamuna Nagar, Haryana, India (2020), India.
10. National Workshop on “*Advance Technique in Mathematics, Physics and Computer Science*”, 18-20 February held at SRM University, Delhi-NCR Campus, Modinagar, Ghaziabad, (U.P).(2016), India.
Activity: Participation
11. A Multi-Disciplinary Faculty Development Programm Series (12 Day) **ERUDITIA 2018**, Organised by and Held at SRM IST, Delhi-NCR Campus, 12th to 23rd June 2018.
Activity: Participation

➤ **Work experience: 16 Years**

❖ **Teaching at Under Graduate Level: (16 Years)**

- Assistant Professor, Physics, SRM Institute of Science and Technology, Delhi- NCR Campus, Modinagar, Ghaziabad. **(December 2012 to till date)**
- Lecturer, Physics, IIMT Engineering College, Meerut. **(March 2010 to Dec 2012)**
- Teaching Assistant, Physics, K.N.P.G. Government College, Gyanpur, SRN Bhadohi, UP. **(July 2003 to June 2005)**

❖ **Teaching at Post Graduate Level: (2 Years)**

- ❖ Teaching Assistant, Physics, K.N.P.G. Government College, Gyanpur, SRN Bhadohi, UP. **(July 2003 to June 2005)**

❖ **Industrial Experience: (2 Years)**

- ❖ 2 Months Industrial Training of Calibrations of Testing Equipment from Presto Stantest Pvt Ltd.
- ❖ 2 Years Experience in Telecom Field in **C.S.I. Telecom Pvt. Ltd (Channel Partner of Panasonic)**. New Delhi. (2008 to 2010)

❖ **Conference organised:**

- ❖ **Role: Organizing Secretary** ” *International Conference on Advance Technique and Devices in Mathematics and Physical Sciences (CATDMP-2015)*” held at SRM University, Delhi-NCR Campus, Ghaziabad (U.P.) (2015), India.

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➤ **Professional Memberships:**

1. Life Membership of **South Asian Meteorological Association (SAMA)**. Membership No. **SAMA-LM-INDIA-95**
2. Life Membership of **“Indian Physics Association”**, Membership no: **LM-2023-DEL-13831**.