



MADHURI SONI

Ph.D.(Physics)

M.Phil (Physics),M.Sc (Physics)

Some people dream of success...

I am one of them, who woke up and work hard to achieve it.

TEACHING EXPERIENCE

3+ years of teaching experience at premier colleges and schools of Indore as Physics Teacher.

1. August 2023 – Continuing.
Assistant Prof.(Contract)
Applied Physics Department,
SGSITS Indore.
 2. November 2022 – Aug 2023
Assistant Professor –
Physics
Teaching Physics, Comm. Skills, Practical's, PowerPoint Presentation, Public speaking,
Seminar to B.Sc. and M.Sc. students of DAVV, Indore at **Christian Eminent College, Indore.**
 3. 2011-12 (1 year)
Assistant Professor – Physics
Taught Physics, Comm. Skills and Practical's to B.Sc., and BCA. Students of DAVV, Indore at
Shri Jain Shwetamber Professional Academy, Indore.
 4. 2013-14 (1 year)
PGT Teacher - Physics
Taught Physics in 11th & 12th classes at **St. Joseph School, Indore.**
 5. 2017-2022 (5 Year)
Research Scholar – Physics (During Ph.D)
Sample making, Characterization and Thesis writing at
School of physics, Devi Ahilya University, Indore.
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EDUCATION

Ph.D. (Physics) (2017-23)

(Notification Awaited)
School of Physics, DAVV.
Guided by Dr. Ashutosh Mishra.

M.Phil (Physics) (2013-14)

School of Physics, DAVV Indore
Passed with 76%

M.Sc (Physics) (2008-2010)

OLD Girls Degree College Indore.
Passed with 73%

B.Sc. (2008): PCM DAVV Passed with 65 %.

H.Sc. (2001): PCM MP Board, 67% marks

High School(1999): MP Board, 65% marks

SKILLS

DTP: Word, PPT, Multimedia & Graphics design.

Co-Curricular Activities: Student council, College Sports teams, maths clubs, talent shows.

Extra-Curricular: Pencil Sketching, Painting, flower decoration,

Sports: Cricket & Foot Ball

PROJECT WORK

M.Sc. Project Title: Planet earth our home explore, share & care.

Guide: Dr.Preeti Bandi (Professor, Old GDC) Indore.

M.Phil Project Title: Pressure induced structural phase transition and elastic properties of rare earth Pr chalcogenides and pnictides.

Guide: Dr. Dinesh Varshney (Professor, School of Physics) DAVV Indore.

RESEARCH WORK

- (1) A-Site Substituted BaTiO₃: Analysis of Structural, Optical, Ferroelectric and Dielectric nature. Journal of Molecular and Engineering materials (World Scientific Publishing Company), 8(2020)2050004.
Madhuri Soni, M. Saleem and Ashutosh Mishra..
- (2) Structural, Optical and other spectral studies of transition metal Ti⁴⁺-doped Zn-Cd oxide nanomaterials
M.Saleem, M.Soni, S.Tiwari, N.Bajpai, and Ashutosh Mishra.
International Journal of Modern Physics B Vol. **34**, No. 6 (2020) 2050033(16).
- (3) Studies of Composites of homo-structured La_{0.8}Sr_{0.2}MnO₃ and Bi_{0.5}Na_{0.5}TiO₃: Synthesis, structure and Dielectric properties.
M. Saleem, N. Bajpai, B. Bhaghat, M. Soni, M. Varshney, A.Mishra and D. Varshney.
AIP Conference Proceeding 2142, 040001 (2019), <https://doi.org/10.1063/1.5122338>.

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- (4) .Studies on structure and colossal dielectric nature of a-site substituted La_2NiO_4 .(M. Saleem, **M. Soni**, Diksha, N. Bajpai, M. Varshney, A. Mishra, and D. Varshney). AIP Conference Proceedings **2115**, 030433 (2019); <https://doi.org/10.1063/1.5113272>.
- (5) Structural and optical properties on Na doped BaTiO_3 AIP Conference Proceedings, 2100,020185 (2019)
M.Soni, M.Saleem, N.Bajpai, S. Chouhan, Meenu Dinesh Varshney and A. Mishra.
- (6) $\text{Ba}_{0.67}\text{Na}_{0.33}\text{TiO}_3$ perovskite: A study of structural, optical and electrical properties. AIP Conference Proceedings 2369, 020191 (2021).
Madhuri Soni, M. Saleem, and A. Mishra.
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Conferences/ Workshops and Seminar attended / Present:

- **National Children's Science Congress-2009** on theme: Planet Earth Our Home Explore, Share & Care, Certificate to appreciation Teacher's Workshop year 2009-2010.
- Prof. Dinesh Varshney memorial **"National Conference on Physics and Chemistry of Materials"** 27- 28 Dec 2018 Organized by Department of physics, Govt. Holkar Science college, Indore and School of Physics , Devi Ahilya University Indore.
- **"63rd DAE Solid State Physics Symposium"** 18-22 Dec 2018 Organized by Bhabha Atomic Research Center, Mumbai and Presented Paper.
- **"National Conference on Physics and Chemistry of Materials"** 14-16 Dec 2020 Organized by Department of physics, Govt. Holkar Science college, Indore and School of Physics , Devi Ahilya University Indore
- Online lectures of XIX School on **"Neutrons as Probes of Condensed Matter"** Organized by UGC –DAE Consortium for scientific Research, Mumbai Centre & Solid State Physics Division , BARC, Mumbai During November 14-19, 2022 On Webex meeting platform.
- **"Cancer Awareness Program"** conducted by SheKunj.com at Christian Eminent College on 4th February, 2023.
- **"International conference on recent trends in physics"** (17-18 Feb. 2023) Organized by school of physics, Devi Ahilya University, Indore.

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Academic Support Activities Performed:

- Mentoring Students.
- QP Setting and Answer sheet valuation.

Administrative Works Performed

- Practical lab. in-charge (Discipline of students, Maintaining Cleanliness, Classroom monitoring)

Soft Skills Learned

- Fluent in Microsoft Word and PowerPoint.
- Use of multimedia for teaching and learning process.
- Used WebEx and Zoom for online classrooms and proctored exam conduction.

Languages Known

- **English:** Fluent in reading, writing and speaking.
- **Hindi** : Fluent in reading, writing and speaking.

Personal Data:

- Marital status : Married with two children of age 4 and 9.
- Date of Birth : 22, March 1983
- Mother tongue : Hindi
- Husband Name : Akhilesh Soni

Declaration:

I am an enthusiastic, self-motivated, reliable, responsible and hard working person. I am a mature team worker and adaptable to all challenging situations. I am able to work well both in a team environment as well as using own initiative. I am able to work well under pressure and adhere to strict deadlines.

I hereby declare that the details furnished above are true to the best of my knowledge.

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