



# DR. MAYUR PATEL

Assistant Professor (GES – CI II)

## PROFILE

I am an Assistant Professor of Physics at our esteemed institution, deeply committed to Experimental Condensed Matter Physics, including Nano Thin Films and Optoelectronic Devices, while also indulging in the vast realms of Astronomy and Astro-photography.

Driven by a vision to empower budding physicists, I am dedicated to fostering critical thinking and practical skills essential for graduate studies, industry roles, and diverse STEM careers. Moreover, I am fervently engaged in shaping the future of physics education by equipping aspiring teachers with indispensable laboratory skills, ensuring enriching learning experiences for their students. Through interdisciplinary approaches, I aim to broaden scientific horizons for non-physics majors, imparting a physicist's perspective in experimental investigations to nurture a holistic understanding of the world around us. Join us in exploring the dynamic learning environment where curiosity thrives and knowledge knows no bounds.

Warm regards,  
Dr. Mayur Patel

## CONTACT

PHONE:  
9725219546

EMAIL:  
[drmayurmpatel.84@gmail.com](mailto:drmayurmpatel.84@gmail.com)

## RESEARCH INTEREST

Experimental Condensed Matter Physics

- Nano Thin Films
- Nano Thin Film Devices
- Optoelectronic Device
- Observable Astronomy

## RESEARCH PAPERS

- 14 International & National Research Papers
- 50+ Research presentations in National/International conferences

## HOBBIES

- Astronomy
- Astro-photography
- Reading & Writing
- Chess
- Learn to learn

## EDUCATION

### Ph.D. (Physics)

2012 – Dept. of Physics, Sardar Patel University, Vallabh Vidyanagar  
“An Applications Of  $\bar{E}$  – Beam Evaporated Tungsten Diselenide Thin films In Schottky Barrier Devices.”

### M.Phil. (Physics) – 1<sup>st</sup> class

2009 – Dept. of Physics, Sardar Patel University, Vallabh Vidyanagar  
“Design & Fabrication of Computer Controlled Thermoelectric Power Measurement Setup.”

### M.Sc. (Physics) - II<sup>nd</sup> Class

2007 – Dept. of Physics, Sardar Patel University, Vallabh Vidyanagar

## WORK EXPERIENCE

### M. N. College, Visnagar [Assistant Professor]

November 3<sup>rd</sup>, 2023 – Present

I design engaging lectures and labs, promoting student comprehension and enthusiasm while conducting research to contribute to the field's advancement.

### Govt. Arts and Science College, Harij [Assistant Professor]

April 26<sup>th</sup>, 2018 – November 2<sup>nd</sup>, 2023

As an assistant professor of physics in a rural area, my mission was to upskill physics majors, train future physics teachers, and broaden the scientific endeavors of introductory non-physics majors through critical thinking, experimental investigations, and a physicist's perspective.

### Smt. S. M. Panchal Science College, Talod [Adhyapak Sahayak]

November 15<sup>th</sup>, 2014 – April 25<sup>th</sup>, 2018

As a fresher in Govt. system, I successfully implemented engaging teaching methods, contributed to curriculum development, and initiated research projects, fostering academic growth and laying the foundation for future accomplishments in the field of physics.

### Dept. of Physics, S. P. University, V. V. Nagar [Research Project Fellow]

June 2008 to August 2014

As a research project fellow in experimental condensed matter physics, I conducted experiments on thin film and Schottky barrier devices, employed various characterization techniques, and contributed to significant findings, advancing understanding in the field and paving the way for practical applications.

## SKILLS

Astro-Photography	50%
Reading & Writing	75%
Problem identifying and...	75%
Experimental Techniques	85%
Computer	83%