



## PRAHLAD CHAUDHARY

Assistant Professor (Physics)  
Government Science College  
Sector-15, Gandhinagar, Gujarat  
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### OBJECTIVE

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I would like to teach students using knowledge-transforming skills at my optimum level. I want to help them gain insight into Physics Subject. So, they can apply it when taking related tests and real-life situations and are interested in empowering students to become socially aware world citizens.

### EDUCATION

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| <b>PhD</b> | Gujarat University   | Pursuing  |
|            | Supervisor: Prof. Dr. Deepak H. Gadani<br>Research Topic: Study of Effect of Fertilizers on Dielectric Properties of Soils |           |
| <b>MSc</b> | Department of Physics, Gujarat University<br>Subject: Physics with Electronics<br>(CGPA: 6.95)                             | 2015-2017 |
| <b>BSc</b> | C.U. Shah Science College, Ahmedabad<br>Subject: Physics<br>(CGPA: 6.17)   | 2012-2015 |

### TEACHING EXPERIENCE

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- Assistant Professor in Physics, Government Science College, Sector-15, Gandhinagar from 20<sup>th</sup> January 2022 to till date.
- Physics Teacher at Sadhana Vinay Mandir High School, Ahmedabad, from January to Dec 2021.
- Lecturer in Physics, M. G. Science College, Navarangpura, Ahmedabad, from July 2018 to February 2019.

### RESEARCH EXPERIENCE

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Prahlad Chaudhary

- I am currently working at the Microwave Signature Lab, Department of Physics, University School of Sciences, Gujarat University, Ahmedabad, India.
- Research work done in the dielectric studies of soil and vegetation using VNA and LCR meters at radio and microwave frequencies, incorporating fieldwork, material analysis, and extensive experience in various data analysis techniques, calculations, data analysis, graphing and plotting, writing manuscripts.
- Experienced in GIS, using QGIS and SNAP software to analyze various aspects of remote sensing data, including SAR and optical applications.

## **PUBLICATIONS**

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- Prahlad D. Chaudhary, Virendra Kumar N. Patel, Tanmay R. Pandit, Vipin A. Rana, Amardatta D. Vyas, Deepak H. Gadani, Measurement of Dielectric Properties of Moist and Fertilized Soil at Radio Frequencies, International Journal of Scientific Research and Reviews-2018, IJSRR 7(1) Special Issue Jan-2018, pp, 358-373 Available Online [www.ijsrr.org](http://www.ijsrr.org).
- P D Chaudhary, V N Patel, V A Rana, & D H Gadani, Measurements on Soil Mixed with Synthetic Fertilizer at Low Frequency Range of 20Hz to 2MHz, Indian Journal Pure and Applied Physics, IJPAP Vol. 58, June 2020, pp. 455-464. [www.niscair.org](http://www.niscair.org).
- Virendra Kumar N. Patel, Prahlad D. Chaudhary, Tanmay R. Pandit, Vipin A. Rana, Amardatta D. Vyas, Deepak H. Gadani, Variation of Electrical Parameters of Soil with Moisture and Salinity over Frequency Range From 20 Hz to 2 MHz, International Journal of Scientific Research and Reviews-2018, IJSRR 7(1) Special Issue Jan-2018, pp, 457-471, Available Online [www.ijsrr.org](http://www.ijsrr.org).
- Virendrakumar N. Patel, Prahlad D. Chaudhary, Vipin A. Rana and Deepak H. Gadani, Estimation of dielectric properties of clay loam and silty soil with different salinity levels over low frequency range, Current Sciences, vol. 120, no. 2, 25 January 2021, <https://www.currentscience.ac.in>.

## **PRESENTATIONS**

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- **Poster Presentation**, “Measurement of Dielectric Properties of Moist and Fertilized Soil at Radio Frequencies” at National Conference on Recent Innovations in Science’18, R.K. University Rajkot, Gujarat (Jan-2018).
- **Paper Presentation**, “Effect of Urea Fertilized on Dielectric properties soil” at Science Excellence 2018 (SCIEXL-2018), Department of Botany, Bioinformatics and Climate Change Impact Management, Gujarat University, Ahmedabad. (September-2018).
- **Poster Presentation**, “Effect of Fertilizers on Dielectric properties soils at Radio Frequency” at Knowledge Consortium of Gujarat (KCG-2019), Navarangpura, Ahmedabad. (Feb.-2019).

- **Oral Presentation**, “Microwave Frequency Measurement of Complex Permittivity of Soil Mixed with Fertilizer” at ICNHMSN 2022 (ICNHMSN-2022), Department of Physics, Yashwantrao Chavan College of Arts, Commers and Science, Sillod, Dist-Aurangabad, Maharashtra. (June-2022).
- **Poster Presentation**, “Laboratory Measurement of Complex Permittivity of Moist Soil at Microwave Frequency” at Condensed matter Physics and Materials Science (CMPMS-2023), Department of Physics, School of Sciences, Gujarat University, Ahmedabad. (March-2023).
- **Poster Presentation**, “Complex Permittivity of Soil with Effect of Fertilizers at Microwave Frequency” at Scientific Progress in Environmental and Economic Development (SPEED-2024), University School of Sciences, Gujarat University, Ahmedabad. (28 & 29 Feb-2024).
- **Oral Presentation**, “Dielectric Spectroscopy of Soils Mixed with Fertilizer Solutions at Low Frequency” at 3<sup>rd</sup> International Conference on Functional Materials and Applied Physics (FMAP-2024) at Department of Physics, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, on October 18-19.

#### **WORKSHOP/CONFERENCE/SYMPOSIUM/OTHER ATTENDED**

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- Workshop on Satellite based “Hydrology and Modelling” at Space Application Centre (SAC), ISRO, Ahmedabad-2018.
- Workshop on “Free and Open Source Geospatial (FOSS4G) Tools” at Saffrony Institute of Technology Campus, Mehasana-2018.
- Course of “Remote Sensing Technology”, Online webinar by SERF Ahmedabad, 2018.
- One Day Workshop on “Interactive Science programme” at Science City, Ahmedabad-2017.
- Seminar on “Nuclear Magnetic Resonance (NMR) Spectroscopy: Concepts and Applications” at Gujarat University -2018.
- National Conference on “Science Excellence 2018 at Department of Botany, Bioinformatics and Climate Change Impact Management”, Gujarat University. (September-2018).
- Conference on “National Research Scholar Meet on Condensed Matter Physics and Materials Science (CMPMS-18)” at Department of Physics, Gujarat University.
- Student Conference on “Optics and Photonics” (SCOP-2018) at Physical Research Laboratory, Ahmedabad, Gujarat.
- Workshop on “QGIS Basic” at Dept. of Earth Sciences, Gujarat University, From 24<sup>th</sup> -25<sup>th</sup> September 2019.
- One Day Symposium on “Nanostructured Materials for Energy Conversion, Storage and Sensor Applications” at PDP, Gandhinagar, Gujarat on 14<sup>th</sup> October 2019.

- 31<sup>st</sup> One Week short term “Research Methodology Workshop on Physics & Electronics” at Knowledge Consortium of Gujarat on 18<sup>th</sup> – 24<sup>th</sup> November 2019.
- National Workshop on “Academic Integrity, Research Ethics and Prevention of Plagiarism” at Gujarat University, Ahmedabad on 12<sup>th</sup> October 2019.
- AWSAR (Augmenting Writing Skills for Articulating Research) webinar on “Popular Science Writing” organizing by DST Govt. of India and University of Jammu on 25<sup>th</sup> June 2020.
- Online webinar on “Popular Science Writing” organizing by DST Govt. of India and Vigyan Prasar on 1<sup>st</sup> September 2020.
- One day webinar on “Visualizing Quantum Mechanics” by EDU-i-Academy on 30<sup>th</sup> August 2020.
- One day workshop on “Structuring your article correctly” (Research Article) by Researcher Academy, Elsevier on 3<sup>rd</sup> September 2020.
- Student Conference on “Optics and Photonics 2020” (SCOP-2020) at Physical Research Laboratory, Ahmedabad on 23-25<sup>th</sup> September 2020.
- Online Workshop on “Geographical Information System” by IIRS-ISRO on 28<sup>th</sup> Sept. to 15<sup>th</sup> October 2020.
- One day International Conference on “Recent Trends in Science and Technology” at Willingdon College, Sangli, Maharashtra, on 29<sup>th</sup> June 2022.
- One-Day Seminar on “Prevention and minimization of plastic Waste” at Silver Oak University, Ahmedabad, sponsored by GEMI, on 10<sup>th</sup> January 2024
- 3<sup>rd</sup> International Conference on Functional Materials and Applied Physics (FMAP-2024) at Department of Physics, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, on October 18-19.

## **PROFILE**

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### Areas of Interest

- Solid State Physics, Atomic and Molecular Physics, Quantum Physics, Nuclear and Particle Physics, Electronics, Remote Sensing, Dielectric Material Studies.

### Technical Skills

- C-Programming, Basic Python, Microprocessor 8085, QGIS Software, Microsoft Office.

### Core Competencies

- Research Management, Research Data Compilation, Time management, communication skills, Ability to work as an individual as well as in group, Ability to cope up with different situation.

## **OTHER ACHIEVEMENTS**

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- Qualified the Gujarat State Eligibility Test for Assistant Professor (GSET), held on 27<sup>th</sup> September 2017
- Secured 1<sup>st</sup> Prize in Poster Presentation at Science Excellence 2018 (SCIEXL-2018), Department of Botany, Bioinformatics and Climate Change Impact Management, Gujarat University, (September-2018)
- Won 3<sup>rd</sup> Prize in Poster Presentation at Knowledge Consortium of Gujarat (KCG-2019), Navarangpura, Ahmedabad, (Feb.-2019)
- Secured 1<sup>st</sup> Prize in Poster Presentation at Scientific Progress in Environmental and Economic Development (SPEED-2024), University School of Sciences, Gujarat University, Ahmedabad, (28 & 29 Feb-2024)
- Secured 1<sup>st</sup> Prize in Oral Presentation at 3<sup>rd</sup> International Conference on Functional Materials and Applied Physics (FMAP-2024) at Department of Physics, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, on October 18-19.

## **PROJECTS- SOME PROJECTS AS PART OF MY MASTER'S**

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- Study of A Microwave Passive Device: C- band and X- band Using the Microwave Generator Klystron source in observing the characteristics of a Waveguide.
- An Electronics Project: Advanced IC(LM741)-Based Enhancements for Electric Guitars.
- A Project on Design and Implementation of Mobile Phone-Controlled Home Automation Systems Using IC and Relay Modules.
- An Electronics Project: Sawtooth Wave Generator Using IC 741 Op-Amp.

## **PERSONAL DETAILS**

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- DoB: 01/06/1995
- Blood Group: B+
- Marital Status: Unmarried

## **LANGUAGES**

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- English, Gujarati, Hindi

## **REFERENCE**

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- Prof. D. H. Gadani, (Research Guide)  
Department of Physics, Gujarat University  
Email: [dhgadani@gujaratuniversity.ac.in](mailto:dhgadani@gujaratuniversity.ac.in)  
RG ID: <https://www.researchgate.net/profile/Deepak-Gadani>

## **DECLARATION**

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

~ P. D. Chaudhary