






# DR. NIKHIL MANIKRAO HULKE

## PhD (Mathematics)

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Gadchiroli-442605.

 19<sup>th</sup> March 1991

## EDUCATION

### PhD (Mathematics)

**Visvesvaraya National Institute of  
Technology, Nagpur**

2016 - 2020

### MSc Mathematics

**Visvesvaraya National Institute of  
Technology, Nagpur**

2012 - 2014

### BSc Maths, Phy, Electronics

**Shivaji Science College, Nagpur  
RTM, Nagpur University**

2009 - 2012

## OTHER QUALIFICATIONS

NET-2017

SET-2016

GATE-2016

## About Me

A passionate and dedicated learner, I excel as a teaching professional and accomplished researcher. My approach to the teaching-learning process centers on equipping minds with critical thinking skills, fostering intellectual independence and problem-solving abilities. Highly Proficient in Python, Data Science, and Machine Learning, with specialized expertise in CNN, RNN, NLP, and LSTM. Also skilled in LaTeX, MATLAB, and SageMath.

## WORK EXPERIENCE

Dec-2019 to May-2024

Shri Ramdeobaba College of Engineering and  
Management, Nagpur

### Assistant Professor

- Demonstrated expertise in managing and instructing classes of 60-70 students, specializing in core mathematics courses crucial for diverse engineering branches.
- Implemented SageMath practical sessions for first-year students, empowering them to apply computational tools in addressing critical challenges.
- Designed and administered comprehensive examinations to effectively evaluate student performance.

June-2015 to May-2016

GH Rasoni College of Engineering, Nagpur

### Assistant Professor

- Instructed B. Tech. students from a range of engineering branches, including Electronics & Communication, Electrical, and Civil.
- I created and managed comprehensive exams to effectively evaluate how students are performing.

## SKILLS

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- Leadership
- Technology Integration
- Teamwork
- Collaboration
- Communication

## LANGUAGE

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Marathi

Hindi

English

July-2014 to May-2015

Visvesvaraya National Institute of Technology

Teaching Assistant

- Taught B. Tech. students across various branches including Civil, Electrical, Mechanical, etc .
- Created comprehensive question papers and assignments that facilitated the analysis of student understanding.

## PROFESSIONAL ACHIEVEMENTS

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- Actively serve as a reviewer for the journals New Astronomy and Astrophysics and Space Science, providing rigorous and constructive feedback on research manuscripts in astronomy and astrophysics.
- My research contributions includes 7 published articles, accumulating more than 129 citations, with an h-index of 5 and i10-index of 5.

## PUBLICATIONS

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- **N. Hulke**, G. P. Singh, Binay K. Bishi and Ashutosh Singh, "Variable Chaplygin gas cosmologies in  $f(R,T)$  gravity with particle creation", *New Astronomy*, **77**, 101357 (2020).
- G. P. Singh, **N. Hulke** and Ashutosh Singh, "Cosmological study of Particle creation in higher derivative theory", *Indian Journal of Physics*, **94**, 127-141 (2020).
- G. P. Singh, **N. Hulke** and Ashutosh Singh, "Thermodynamical and observational aspects of cosmological model with linear equation of state", *International Journal of Geometric Methods in Modern Physics*, **15**(08), 1850129 (2018).
- G. P. Singh, **N. Hulke** and Ashutosh Singh, "Accelerating cosmologies with nonlinear electrodynamics", *Canadian Journal of Physics*, **96**(09), 992-998 (2018)