



Dr. Rakesh M. Patel

Department of Mathematics

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Dr. Rakesh M. Patel has been actively engaged in research since 1993 in the fields of **Tribology, Mathematical Modelling, Bio-Mathematics, Magnetohydrodynamics, and Industrial Engineering**. His primary area of specialization lies in **analytic and asymptotic modeling of lubrication, convection, and magnetism**. In recent years, he has expanded his research interests to include **data sampling and predictability analysis** with applications to **real-life problems**.

Awards and Recognitions:

- ✓ 1997: **Hari Ohm Ashram Award**
- ✓ 2007: **UGC Major Research Project**
- ✓ 2008: **Dolaria Mankad Award**
- ✓ 2018: **Springer Award for Best Presentation (250 EURO)**

Dr. Patel has made significant theoretical contributions, including the derivation of **general asymptotic and analytical solutions** for **critical field dynamos, planetary-type MHD flows in strong potential fields,**

and **power-based MHD dynamo scaling laws**. He has published **over 127 research papers** in reputed **national and international journals**.

Collaborations and Academic Engagements:

He has established **MoUs** with:

Sultan Qaboos University, Muscat, Oman

Dr. Bhimrao Ambedkar University (Agra University), Agra, India

Invited Visits:

1. Sultan Qaboos University, Muscat, Oman — March 3–7, 2024
2. ICMA–2024, Kampar, Perak, Malaysia — November 17–20, 2024
3. Tribhuvan University, Kathmandu, Nepal — December 13–15, 2024
4. Kathmandu University, Kathmandu, Nepal — May 08–10, 2025
5. Colombo University, Colombo, Sri Lanka— March 04–06, 2025
6. Applied Science & Engineering, Amsterdam Netherlands, — June 06–27, 2025
7. Research Conference, General Sir Kotelawala Defence University, Sri Lanka, — September 29 – October 01, 2025.
8. 2nd Conference on Sustainable Innovations in Management in the Digital Transformation Era (SIMDTE 2025), organized by the College of Administrative and Financial Sciences (CAFS) at the University of Technology Bahrain (UTB), — October 12 – 15, 2025.