

Faculty Profile

Name: **Dr. Rakesh Reddy**
Designation: Assistant Professor
Teaching Areas: Abstract Algebra, Linear Algebra, Complex Analysis, Calculus, Differential Equations, Discrete Mathematics.
Research Interests: Hilbert Functions and Coefficients, Local Cohomology, Application of D-modules to commutative Algebra.
Education: Ph.D., Indian Institute of Technology, Bombay, 2015.
M.Sc., Indian Institute of Technology, Madras, 2008.
B.Sc., Osmania University, 2004.



Professional Experience (6 years):

1. 2020-till date, Assistant Professor, FST, The ICFAI for Higher Education, Hyderabad.
2. Oct-2019 to Feb-2020, Assistant Professor, Amrita Chennai.
3. May-2019 to Oct-2019, Sr. Lecturer, Sri Chaitanya Educational Institutions, Hyderabad.
4. Apr-2017 to Apr-2019, Lecturer, VelocItty Educational Institutions, Hyderabad.
5. Jan-2016 to Apr-2017, Post Doctoral Fellow, Indian Institute of Science Education and Research, Thiruvananthapuram.
6. 2010-2012, Teaching Assistant, Indian Institute of Technology, Bombay.

Research/Selected Publications:

1. **Rakesh B.T. Reddy**, Tony J. Puthenpurakal: "de Rham Cohomology of Local Cohomology Modules-II". Beitr. Algebra Geom. Vol.60, No.1, pp.77–94, 2019.
2. **Rakesh B.T. Reddy**, Tony J. Puthenpurakal: "On a relation between de Rham cohomology of $\frac{1}{0}()$ and Koszul cohomology of $\partial(f)$ in $R/(f)$ ". Indian J. Pure Appl. Math. Vol.49, No.1, pp.71–86, 2018.
3. **Rakesh B.T. Reddy**, Tony J. Puthenpurakal, Amir Mafi, and Hero Saremi: "Relative Hilbert Coefficients", Glasg. Math. J. Vol. 59, No.3, pp. 729–741, 2017.