

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.

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 $H_{(f)}^1(R)$ 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.