

**DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF  
NOVEL JANUS KINASE INHIBITORS FOR THE  
TREATMENT OF INFLAMMATORY DISEASES**

A Thesis Submitted to  
The Maharaja Sayajirao University of Baroda  
for the Degree of

**Doctor of Philosophy**

**IN  
CHEMISTRY**

**BY  
NANDINI PANCHAL**



**Department of Chemistry  
Faculty of Science  
The M. S. University of Baroda  
Vadodara-390 001**

**June 2021**