



Department of Chemistry
Centre of Advanced Studies in
Chemistry
Faculty of Science, Vadodara 390 002
Gujarat, India
Tel: +91-265-2795552

The Maharaja Sayajirao University of Baroda

CHL/ /

CERTIFICATE

This is to certify that **Ms. Jayashree Vishvasrao Patil** (Reg No. FOS/2271, date 16/02/2021) has carried out the work presented in this thesis entitled **“Synthesis and Applications of Oxygen/Nitrogen Containing Five/Six Membered Heterocyclic Compounds”** is an original piece of work done under my supervision and guidance at the Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara and the same has not been submitted elsewhere for any degree. I recommend this thesis for submission for the award of Doctor of Philosophy in Chemistry degree at Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat.

(Prof. Shubhangi S. Soman)

Research Guide
Department of Chemistry

Prof. Shubhangi S. Soman
Professor
Department of Chemistry
Faculty of Science
The M.S. University of Baroda
Vadodara-390 002

(Prof. Ashutosh Bedekar)

Offg. Head
Department of Chemistry



Department of Chemistry
Centre of Advanced Studies in
Chemistry
Faculty of Science, Vadodara 390 002
Gujarat, India
Tel: +91-265-2795552

The Maharaja Sayajirao University of Baroda

CHL/

/

CERTIFICATE

This is to certify that **Ms. Jayashree Vishvasrao Patil** (Reg No. FOS/2271, date 16/02/2021) has published two research papers in peer reviewed journal during his Ph.D. work. The list of published papers is given below.

1. **Synthetic Communications, Taylor and Francis, 2023, 53, 217–233.**

Design, Synthesis and Anticancer Activity of Amide Derivatives of Substituted 3-Methyl-Benzofuran-2-Carboxylic Acid

Jayashree V. Patil, Shweta Umar, Rina Soni, Prof. Shubhangi S. Soman, Prof. Balakrishnan Suresh.

2. **Journal of Molecular Structure, Elsevier, 2023, 1287, 135739**

Design of Unsymmetric Coumarin Chalcone Derivatives with Tunable Self-Assembling Behavior

Jayashree V. Patil, Rina Soni, Ashish Nandawana, Prof. Shubhangi S. Soman

(Prof. Shubhangi S. Soman)

Research Guide
Department of Chemistry

Prof. Shubhangi S. Soman
Professor
Department of Chemistry
Faculty of Science
The M.S. University of Baroda
Vadodara-390 002

(Prof. Ashutosh Bedekar)

Offg. Head
Department of Chemistry