

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Vatsal H. Patel
- **User Type:** Bachelor's
- **Institution Name** : Adani University
- **Institutional Contact No:** 9099002732
- **Research Topic:** Acoustic meta surface

Software Request Details

- **Software Name:** COMSOL Multiphysics
- **Justification for Software Request:** I am conducting research on **acoustic metasurfaces** to analyze and optimize their **underwater sound damping and absorption performance**. The work involves designing parametric geometries and simulating acoustic wave propagation to evaluate absorption coefficients, transmission loss, and impedance characteristics under underwater conditions.
- The **COMSOL Multiphysics Acoustics Module** is essential as it provides advanced pressure acoustics modeling, finite element simulation, geometry parameterization, and multiphysics coupling capabilities required for accurate research-grade analysis.
- Access to this software is necessary to simulate, validate, and optimize metasurface designs for underwater acoustic applications as part of my academic research.

Guide/Supervisor Approval

I, Dr. Krupli Donda (Guide/Supervisor Name),

- Confirm that the above-mentioned researcher is affiliated with our institution
- Have reviewed the software request and its relevance to the researcher's academic work
- Approve the software request for research purposes

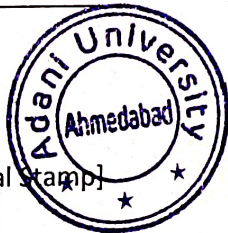
Approval Confirmation

- I approve the software request
- The software aligns with the researcher's research objectives
- The request meets the institutional research guidelines

Guide/Supervisor Signature: _____

Date: 19/2/2026

Official Stamp/Seal:



[Space for Institutional Stamp]