

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Arpita Pradhan
- **User Type:** Ph.D. Scholar
- **Institution Name:** Mahindra University École Centrale School of Engineering.
- **Institutional Contact No:** 040 – 67135100
- **Research Topic:** Hollow Core Anti-Resonant Fibre

Software Request Details

- **Software Name:** COMSOL
- **Justification for Software Request:** COMSOL Multiphysics enables precise simulation of **electromagnetic wave propagation, confinement loss, and thermal effects** in Hollow-Core Anti-resonant Fibers (HC-ARF). This helps optimize fiber design for high-power laser delivery before experimental validation.
- **Guide/Supervisor Approval**

I, Kamna Pande

- 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: 06 March 2025

Official Stamp/Seal:

