

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** ELSA SNEHA THOMAS
- **User Type:** ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- **Institution Name** : CHRIST (Deemed to be University) – Kengeri Campus
- **Institutional Contact No:** 080 62689800
- **Research Topic:** Piezo Electric Energy Harvester for MEMS based sensors

Software Request Details

- **Software Name:** COMSOL Multiphysics
- **Justification for Software Request:** Ms. Elsa Sneha Thomas's ongoing work requires the capability to: Simulate piezoelectric effects at the nano scale, Analyse mechanical deformation and electric potential coupling, Study material properties and behaviour under varying physical conditions, optimize nanostructures for energy harvesting applications. COMSOL Multiphysics is a critical tool in this context, as it offers a robust simulation environment capable of handling such complex, multi-domain problems with high accuracy and flexibility. This software is essential for: Ensuring the scientific rigor and accuracy of simulation-based results, Achieving the research objectives outlined in her doctoral proposal, Producing high-quality publications in reputed journals and conferences.

Guide/Supervisor Approval

I, Dr. Ranjith R. (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: 16-06-2025

Official Stamp/Seal: [Space for Institutional Stamp]

Important Notes

1. This form must be signed and scanned
2. The scanned copy must be uploaded with the software request
3. Electronic signatures are acceptable if from an official institutional email