

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: DHANYA A S
- User Type: ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- Institution Name : Amrita Vishwa Vidyapeetham, Amritapuri, Kollam
- Institutional Contact No: 0476 2801280
- Research Topic: Ultrasound Assisted Optical Elastography

Software Request Details

- Software Name: COMSOL
- Justification for Software Request: COMSOL Multiphysics is requested to perform numerical simulation of light propagation in breast tissue-mimicking phantoms with embedded tumors, with the objective of quantitatively analyzing optical absorption (μ_a) and reduced scattering (μ_s') coefficients. These simulations are essential for understanding optical contrast mechanisms relevant to non-invasive breast cancer detection and optical elastography research.

[Provide detailed explanation of how the software supports your research objectives]

Guide/Supervisor Approval

I, Dr. Suma H (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: 22.12.25

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

