

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Shivam Katoch
- User Type: ☒ Ph.D. Scholar [] Postdoctoral Researcher [] Bachelor's [] Masters
- Institution Name : Central University of Himachal Pradesh
- Institutional Contact No: 01892-228701
- Research Topic: Optofluidics

Software Request Details

- Software Name: COMSOL Multiphysics
- Justification for Software Request: I require COMSOL Multiphysics for my project to model coupled physical phenomena that cannot be addressed analytically. My work involves light-matter interaction, including modelling radiation pressure, magnetic-field- and thermally induced liquid water dynamics, as well as the analysis of capillary-driven flows. COMSOL will enable the simultaneous treatment of optics, fluid flow, heat transfer, and electromagnetic effects within a single framework, allowing meaningful and quantitative comparison between experimental observations and theoretical predictions.

Guide/Supervisor Approval

I, Dr. Rakesh Sharma (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: _____

Rakesh Sharma

Date: 27/01/2026

Assistant Professor
Department of Physics and Astronomical Sciences
Central University of Himachal Pradesh
Shahpur, Kangra (H.P.)

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