

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Dhanasekar A K
- User Type: ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- Institution Name : Raman Research Institute
- Institutional Contact No: +91 80 24424401
- Research Topic: Design and Development of a High-Stability External-Cavity Diode Laser (ECDL) for Precision Atomic Spectroscopy

Software Request Details

- Software Name: COMSOL Multiphysics
- Justification for Software Request: COMSOL will support my ECDL research through integrated optical, structural, and electromechanical simulations. AC/DC will model the piezoelectric actuator and its electromechanical response; Ray Optics will optimize the Littrow grating geometry, beam path, incidence angle, and wavelength tuning; Structural Mechanics will optimize the grating-holder flexure, pivot point, deformation, stiffness, and vibration modes.

Guide/Supervisor Approval

I, Prof. Sadiq Rangwala (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: _____

Official Stamp/Seal:

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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