

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Ritik Roushan
- **User Type:** ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☒ Masters
- **Institution Name** : IIT Guwahati
- **Institutional Contact No:** 9142400817
- **Research Topic:** Integrated Quantum Photonics

Software Request Details

- **Software Name:** Comsol
- **Justification for Software Request**

The software is required to study optical waveguiding in laser formed photonic networks in diamond. We will simulate photonic structures composed of directional couplers and Y Splitters

Guide/Supervisor Approval

I, Dr. Vibhav Bharadwaj Shivakumar (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: 12.5.2025

Official Stamp/Seal: [Space for Institutional Stamp]

Dr. Vibhav Bharadwaj Shivakumar
Assistant Professor, Department of Physics
Indian Institute of Technology Guwahati
Guwahati-781039, Assam, India