

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Vaishnav J G
- User Type: Ph.D. Scholar
- Institution Name: Vellore Institute of Technology, Vellore
- Institutional Contact No: 04162243091
- Research Topic: 2D Topological Insulators

Software Request Details

- Software Name: COMSOL Multiphysics
- Justification for Software Request: COMSOL Multiphysics enables finite element modelling of anisotropic, frequency dependent material tensor under magnetic bias, those are essential for capturing topological bandgaps and edge states. The software supports Bloch-floquet boundary condition, eigenfrequency analysis, field export, allowing full Brillouin zone band structure calculations and chern number evaluation.

Guide/Supervisor Approval

I, Dr. Chittaranjan Nayak,

- 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: 09/02/2026

Official Stamp/Seal

Dr. CHITTARANJAN NAYAK
Associate Professor
Department of Communication Engineering
School of Electronics Engineering
Vellore Institute of Technology,
Vellore - 632 014, Tamil Nadu, India.

