

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Ronanki Sethuram
- **User Type:** ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- **Institution Name:** Indian Institute of Science (IISc) Bangalore
- **Institutional Contact No:** 9182388190
- **Research Topic:** High-current, low-voltage point-of-load converters for data centre applications.

Software Request Details

- **Software Name:** COMSOL Multiphysics
- **Justification for Software Request:** My research involves the design of high-frequency transformers and inductors, where accurate electromagnetic and thermal analyses are essential. Additionally, PCB parasitic extraction and thermal analysis are critical for optimizing converter performance and reliability. Therefore, COMSOL Multiphysics is required to perform these integrated simulations efficiently and support the successful completion of the research.

Guide/Supervisor Approval

I, Dr. Kaushik Basu,

- 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: 03/07/2026

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

