

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** NARESH KUMAR MEENA
- **User Type:** ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Master's
- **Institution Name:** Indian Institute of Science (IISc), Bengaluru
- **Institutional Contact No.:** 08023600810
- **Research Topic:** Integrated Magnetic, AC-DC, DC-DC CONVERTER, ELECTRIC DRIVES

Software Request Details

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

COMSOL Multiphysics is required for my Ph.D. research to perform finite element-based electromagnetic simulations of magnetic components and devices. It will be used to analyse magnetic field distribution, flux density, inductance, core saturation, and electromagnetic behaviour, as well as to evaluate losses and thermal performance. The software will support the design, optimization, and validation of magnetic structures through accurate Multiphysics simulations, complementing analytical studies and experimental investigations.

Guide/Supervisor Approval

I, **Prof. L. Umanand** (Research Supervisor),

- 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: 02/07/2026

Official Stamp/Seal: _____

Prof. L. UMANAND
Department of Electronic
Systems Engineering
Indian Institute of Science
Bangalore-560 012.