

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Dr. Avinash Sahu
- User Type: ☐ Ph.D. Scholar ☒ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- Institution Name: IISc, Bangalore
- Institutional Contact No: 9003387409
- Research Topic: To evaluate the heat transfer performance of a microchannel.

Software Request Details

- Software Name: Comsol
- Justification for Software Request: [Provide detailed explanation of how the software supports your research objectives]

To investigate the heat transfer phenomena in a microchannel by analyzing the temperature distribution, thermal gradients, and transient thermal behaviour under varying heating powers, fluid flow rates, and microchannel geometries. The study aims to understand the efficiency of heat transfer from the heat source to the fluid and identify the factors influencing thermal performance.

Guide/Supervisor Approval

I, Prof. Sai Siva Gorthi (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: G. S. Siva

Date: 30/6/2026

Official Stamp/Seal: [Space for Institutional Stamp]

Prof. SAI SIVA GORTHI
Professor
Department of Instrumentation & Applied Physics
Indian Institute of Science (IISc)
Bengaluru-560012, India

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