

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Tanmay Ghildiyal
- User Type: Ph.D. Scholar
- Institution Name : Manipal Institute of Technology
- Institutional Contact No: 08202924821
- Research Topic: Design and fabrication of a microfluidic test bed for microbiological analysis.

Software Request Details

- Software Name: COMSOL Multiphysics
- Justification for Software Request: My research involves handling microbiological fluids using microfluidic chips. The multiple applications like droplet generation, particle trajectory prediction, velocity profiles are all relevant to the problems of biophysics of microbial culture fluids. These predictions/hypotheses can be tested using a simulation software like COMSOL Multiphysics. COMSOL provides an integrated platform to simulate more than one physics and especially all the physics and study modules relevant to my research in microfluidics.

Guide/Supervisor Approval

I, Dr. Shailendra Kumar Tiwari (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: S.K. Tiwari
Department of
Electronics & Communication Engg.
M.I.T., MANIPAL - 576 104

Date: 03-06-2025

Official Stamp/Seal:

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