

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: RAJ KUMAR KALSHYAN
- User Type: ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- Institution Name : National Institute of Technology Durgapur
- Institutional Contact No: +91-343-2546397
- Research Topic: Susceptor assisted microwave processing of materials

Software Request Details

- Software Name: Comsol Multiphysics (advanced)
- Justification for Software Request: [Provide detailed explanation of how the software supports your research objectives] Using Comsol will enable:
 - Mechanistic understanding of microwave-material-susceptor interactions.
 - Optimization of process design for energy-efficient material synthesis
 - Quantitative comparison of microwave vs conventional heating.
 - Generation of validated simulation data supporting publications & thesis work

Guide/Supervisor Approval

I, SATADAL GHORAI (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: Satadal Ghorai

Date: 13/10/2025

Official Stamp/Seal: [Space for Institutional Stamp]

SATADAL GHORAI
Associate Professor
Metallurgical & Materials Engineering Department
National Institute of Technology
Durgapur - 713209 (W.B.), India

Important Notes

- This form must be signed and scanned
- The scanned copy must be uploaded with the software request
- Electronic signatures are acceptable if from an official institutional email