

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Shubham Kumar Mishra
- **User Type:** Ph.D. Scholar
- **Institution Name:** PDPM IIIT DM Jabalpur
- **Institutional Contact No:** 7389579397
- **Research Topic:** Viscosity Measurements of Non-Newtonian Fluids

Software Request Details

- **Software Name:** COMSOL Multiphysics 6.0
- **Justification for Software Request:** COMSOL Multiphysics is essential for simulating fluid-structure interactions in my research on viscosity measurements of non-Newtonian fluids using a cantilever sensor with a PZT patch. It enables eigenfrequency analysis, fluid damping evaluation, and piezoelectric coupling, ensuring accurate viscosity determination and sensor optimization.

Guide/Supervisor Approval

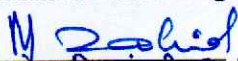
I, Dr. M.Z. Ansari,

- 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: _____


डॉ. म. जाहिद अंसारी / Dr. M. Zahid Ansari

Date: 07/04/2025

सहायक प्राध्यापक/Associate Professor
यांत्रिकी अभियंत्रिकी विभाग/Mechanical Engineering Discipline
पी.डी.पी.एम.-आई.आई.टी.डी.एम., जबलपुर (म.प्र.) भारत
PDPM-IIITDM, Jabalpur (M.P.) INDIA

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