

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** SUDINDRA S.
- **User Type:** Ph.D. Scholar
- **Institution Name:** JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU
- **Institutional Contact No:** 080 2861 2565
- **Research Topic:** "THERMAL BEHAVIOR OF TRUNCATED MAGNETO ELECTRO ELASTIC CONICAL SHELL" Comsol Multiphysics with the following Modules, Heat Transfer Module, Structural Mechanics Module, Composite Material Module, MEMS

Software Request Details

- **Module, Material Library**
- **Software Name:** Basic + Advanced Comsol
- **Justification for Software Request:** In the Research work, there is a coupling between Thermal, Electric, Elastic and Magnetic fields. A Multiphysics software is required for analysis. The Composite Shell is made up one layer of Piezoelectric material (BaTiO_3) the other layer from Cobalt ferrite (CoFe_2O_4) forming two layers. Which is subjected to Temperature loads and we are interested in evaluating this behaviour by finding stresses, strains, displacement, electric field induced, magnetic field etc., of the composite.
- **Guide/Supervisor Approval I, Dr. Anandkumar R. Annigeri (Guide)**
- 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: 24/10/2025

Dr. Anandkumar R. Annigeri

B.E., M.E., Ph.D. (IITM)

Official Stamp/Seal: [Space for Institutional Stamp]

Dept. of Mechanical Engg.
JSSATE, Bangalore-60.

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

