

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Manda Krishna (24MER1P16)
- **User Type:** [☒] Ph.D. Scholar [☐] Postdoctoral Researcher [☐] Bachelor's [☐] Masters
- **Institution Name:** National Institute of Technology (NIT), Warangal
- **Institutional Contact No:** 0870-245 9191
- **Research Topic:** Additive Manufacturing

Software Request Details

- **Software Name:** COMSOL
- **Justification for Software Request:** [COMSOL supports the research by simulating the heat flow, material behaviour, and deformation that occur during metal 3D printing, helps to understand how different process parameters affect the final outcome. It also allows the design and testing of lighter, optimized components before fabrication. Through its analysis tools, COMSOL provides reliable data that connect process settings to microstructure and mechanical properties, strengthening both experimental and predictive studies.]

Guide/Supervisor Approval

I, Dr. C.S.P. Rao, Professor (HAG),

- 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: 26-11-2025

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

Professor
Department of Mechanical Engineering
National Institute of Technology
Warangal - 506 004.