

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Krishnan S
- **User Type:** ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- **Institution Name :** Vellore institute of technology, Vellore
- **Institutional Contact No. :** 0416 224 3091 , 0416 224 2382
- **Research Topic:** PEM Fuel Cell

Software Request Details

- **Software Name:** COMSOL Multiphysics [Required modules : CFD Module , Fuel Cell & Electrolyzer Module, Heat Transfer Module, Optimization Module, Chemical Reaction Engineering Module, Battery Design Module]
- **Justification for Software Request:** COMSOL Multiphysics for the research allows me to model and simulate Fuel Cell. My research focuses on understanding how effectively the model will predict the polarization and performance of the fuel cell. The Multiphysics coupling enables integration of heat and mass transfer, fluid flow and electrochemical studies in a single environment.

Guide/Supervisor Approval

I, Dr. Arjun Singh K,

- 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: 27/10/2025

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

