

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Gayathri Madathiveetil Subhash
- User Type: ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☒ Bachelor's ☐ Masters
- Institution Name : VIT Bhopal University
- Institutional Contact No: +91 7560350900
- Research Topic: Cubesat Altitude Control System and Propulsion Subsystem

Software Request Details

- Software Name: COMSOL Multiphysics
- Justification for Software Request: I am requesting access to COMSOL Multiphysics for my capstone project, which involves designing and simulating a magnetorquer-based attitude control system for a CubeSat. The goal is to develop an efficient system to aid in reducing the detumbling phase after deployment in low Earth orbit (LEO). COMSOL's ability to simulate 3D magnetostatic behaviour, nonlinear magnetic materials, and coil geometries will be essential for validating the magnetic dipole moment and optimizing the system's performance.

Guide/Supervisor Approval

I, Dr Ankush Thakkar (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: Dr Ankush Thakkar

Date: 5/08/2025

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