

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** RAAGDEEP RAJ
- **User Type:** Ph.D. Scholar
- **Institution Name:** Indian Institute of Technology Guwahati
- **Institutional Contact No:** 0361-2582700
- **Research Topic:** MEMS Piezoelectric sensor for Totally implantable Cochlear Implants

Software Request Details

- **Software Name:** COMSOL Multiphysics (Basic+Advanced)
- **Justification for Software Request:** The request for COMSOL Multiphysics software is critical for the advanced simulation and design of Microelectromechanical Systems (MEMS) sensors integral to cochlear implant research. This software directly supports the research objectives by enabling the precise modelling of complex, real-world physical interactions that occur within these devices.

COMSOL is the industry-standard tool for high-fidelity Multiphysics simulation. The research necessitates simultaneously analyzing coupled physical domains, including MEMS, Structural Mechanics, Acoustics & Fluid-Structure Interaction (FSI), Electrical Performance (Piezoelectric)

Guide/Supervisor Approval

I, **Dr. Subramani Kanagaraj** (Guide/Supervisor),

- 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. S. Kanagaraj
Professor

Date: 12/12/2025

Department of Mechanical Engineering
Indian Institute of Technology
Guwahati - 781039, 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