

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: GAJANAN M. JUMADE
- User Type: ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☒ Bachelor's ☐ Masters
- Institution Name: GOVERNMENT POLYTECHNIC, KHAMGAON
- Institutional Contact No: 07263-295011
- Research Topic: Breaking RCC Members Using Ultrasonic Sound Waves

Software Request Details

- Software Name: COMSOL Multiphysics (Basic + Advanced Modules)
- Justification for Software Request: [The proposed academic project involves numerical simulation of ultrasonic wave interaction with reinforced cement concrete (RCC). The study requires coupled solid mechanics and acoustics modeling to evaluate stress propagation, vibration response, and micro-damage initiation in concrete.

COMSOL Multiphysics provides an integrated environment for solid mechanics, acoustics, and multiphysics coupling, which is essential for achieving the objectives of this research. The software enables frequency-domain analysis, wave propagation visualization, and material response evaluation, which cannot be effectively performed using conventional structural analysis tools.

Hence, access to COMSOL Multiphysics is essential to carry out the proposed academic research work.]

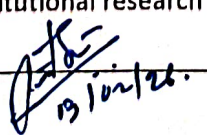
Guide/Supervisor Approval

I, P. V. BAHEKAR (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: 

Date: 03/02/2026

Official Stamp/Seal:

Head of Civil Engg. Deptt.
Government Polytechnic
Khamgaon

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

03/05/2025