

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Aneena Mohan
- **User Type:** ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- **Institution Name** : University of Calicut
- **Institutional Contact No:** 04942407415
- **Research Topic:** "Microswimmers in Anisotropic Liquids" – Soft Matter Physics

Software Request Details

- **Software Name:** COMSOL
- **Justification for Software Request:** I have performed an experiment using aqueous TTAB droplets dispersed in aligned nematic liquid crystal. The droplets exhibited random motion due to the Marangoni stress. After the motion ceases, I have applied electric field and observed an oscillatory motion of the droplet. The observation indicate a possibility of parametric excitation. Hence I would like to simulate the experimental observation using COMSOL. I hope this will improve my understanding on the observed phenomenon.

Guide/Supervisor Approval

I, Dr. Zuhail K P (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: Zuhail K P

Date: 08/09/25

Official Stamp/Seal: [Space for Institutional Stamp]

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

Dr. Zuhail K P
Assistant Professor
Department of Physics
University of Calicut
Kerala 673 635, India

