

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Amritanjali Kiran
- **User Type:** ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- **Institution Name :** BITS Pilani Hyderabad Campus
- **Institutional Contact No:** 7408967295
- **Research Topic:** Device for Early Detection of Breast Cancer: Diagnosis Through Multi-Omics Data Analysis and Experimental Validation

Software Request Details

- **Software Name:** COMSOL
- **Justification for Software Request:** In the proposed project the researcher is developing microfluidic device for early stage breast cancer. The candidate has to design and simulate the microfluidic device through COMSOL. The software enables prediction of flow distribution, mixing efficiency, pressure drop, and analyte transport, reducing the need for extensive experimental prototyping. This computational approach accelerates device development, minimizes design errors, and improves the overall performance and reliability of the microfluidic platform.

Guide/Supervisor Approval

I, Prof. Balaram Ghosh,

- 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: Balaram Ghosh

Date: 4/6/26

Dr. Balaram Ghosh

Official Stamp/Seal:

Department of Pharmacy
BITS- Pilani, Hyderabad Campus
Jawahar Nagar, Kapra Mandal
Hyderabad, Telangana, India 500078.

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