

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** A. PHILOMINA JENIFER
- **User Type:** Ph.D. Scholar
- **Institution Name:** SRM INSTITUTE OF SCIENCE & TECHNOLOGY
- **Institutional Contact No:** 8122340014
- **Research Topic:** An Optimal Frame work for Accurate Detection of Sickle Cell Disease

Software Request Details

- **Software Name:** COMSOL Multiphysics 5.6 & 6.0
- **Justification for Software Request:** [Provide detailed explanation of how the software supports your research objectives]

The research requires the use of COMSOL Multiphysics because it allows the use of biosensors, which are aimed at the correct identification of the Sickle Cell Disease, through the use of the Multiphysics of the biosensors. It also facilitates simultaneous study of microfluidic blood flow, electrical impedance change, and mechanical deformation of red blood cells that are essential biophysical markers of normal and sickle cells. Thus, COMSOL Multiphysics 5.6 and 6.0 would be essential in ensuring a successful development of an optimal, economical, and dependable framework of early and precise detection of Sickle Cell Disease.

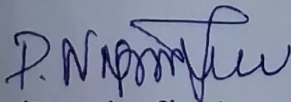
Guide/Supervisor Approval

I, **Dr.P. Nagarajan**, Associate Professor, Department of ECE, SRM Institute of Science & Technology, Vadapalani Campus, Chennai, 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: 21.01.2026.

Official Stamp/Seal:

Dr. P. NAGARAJAN ME., Ph.D.,
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Department of Electronics and
Communication Engineering
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