

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher** : Amala Devi S
- **User Type** : PhD. Scholar
- **Institution Name** : Department of Physics, Amrita School of Physical Sciences, Amrita Vishwa Vidyapeetham, Coimbatore - 641112
- **Institutional Contact No:** 04222685000
- **Research Topic** : Development of helical nanofluidic channel for size-dependent filtration and integrated device fabrication for corrosion inhibition.

Software Request Details

- **Software Name** : **COMSOL BASIC + ADVANCED MODULES**
(CFD Module, Microfluidics Module, Porous Media Flow Module, Molecular Flow Module, Corrosion Module)
- **Justification for Software Request:** The primary objective of my proposed research work is to model fluid channel flow for nanoparticle filtration through a porous membrane. We need advanced tools in COMSOL to perform this work, for which we don't have access to a licensed version at our institute.

Guide/Supervisor Approval

I, Dr K.S. Rajni (Professor, Department of Physics, Amrita School of Physical Sciences, Amrita Vishwa Vidyapeetham, Coimbatore,

- 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: _____

5/12/25

Official Stamp/Seal:



Dr. K S RAJNI
Professor
Department of Physics
Amrita School of Physical Sciences
Amrita Vishwa Vidyapeetham, Amrita Nagar,
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