

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: ASMIT MUKHERJEE (2022BSA70909H)
- User Type: ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- Institution Name : BITS-Pilani, Hyderabad
- Institutional Contact No: 040 - 66303836/813
- Research Topic: COMSOL-based simulation of metamaterials in the THz frequency range

Software Request Details

- Software Name: COMSOL Multiphysics (AC/DC and Wave Optics Module)
- Justification for Software Request: [Provide detailed explanation of how the software supports your research objectives]

The student will simulate various types of metallic metamaterials (on top of a Silicon substrate) and simulate transmittance and Absorbance of the structure in the THz frequency range using the frequency domain Wave Optics module. Later, AC/DC module will be used to provide electric fields in the metamaterial structure to effectively tune the observed properties. Hence, the student will need to use COMSOL Multiphysics (Wave Optics and AC/DC module) for this project.

Guide/Supervisor Approval

I, Dr. Debanjan Polley (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: Debanjan Polley

Date: 16/6/25

Official Stamp/Seal: [Space for Institutional Stamp]

Deputy Registrar

BITS Pilani, Hyderabad Campus
Jawaharnagar, Kapra Mandal
Medchal District-500 078
Telangana State, India

Important Notes

- This form must be signed and scanned
- The scanned copy must be uploaded with the software request
- Electronic signatures are acceptable if from an official institutional email

In-charge
CC Lab

VKS