

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: SANKARAN V
- User Type: ☒ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☐ Masters
- Institution Name: PSG College of Technology
- Institutional Contact No: 8148877263
- Research Topic: Ion Irradiation Effects on Wide Bandgap Semiconductors for UV Photodetector applications

Software Request Details

- Software Name: COMSOL Multiphysics

Justification for Software Request: My research focuses on the fabrication and characterization of UV photodetector devices based on wide band gap semiconductor thin films. COMSOL Multiphysics is required to simulate the multiphysics behaviour of the photodetector structures, including electrical transport, optical absorption, and thermal effects. These simulations will help to correlate experimental observations with theoretical models, analyse the influence of material parameters and device geometry, and optimize structural parameters for improved device performance. These simulations will help to understand device behaviour and support the analysis of experimental results.

Guide/Supervisor Approval

I, Dr.P.Kathirvel (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: _____

Date: _____

Official Stamp/Seal:


16/03/26
Dr. P. KATHIRVEL Ph.D.,
Assistant Professor
Department of Physics
PSG College of Technology
Peelamedu, Coimbatore - 641 004.

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