User Details

- **Name of Researcher**: Sahil Ahmed
- **User Type**: Ph.D. Scholar
- **Institution Name :** Manipal institute of applied physics, MAHE, Manipal
- **Institutional Contact No**: 0820-2925073
- **Research Topic**: Random lasers

Software Request Details

- **Software Name**: COMSOL Multiphysics
- **Justification for Software Request**: The above-mentioned software will be used for preliminary studies conducted for the doctoral research.

  As my work progresses into modelling of field fluctuations near the nanoparticles. The tools included in the software will be helpful in calculating scattering and absorption cross section and it is helpful in simulation of optical field around the complex optimised geometry of scattering nanoparticles.

  Specifically, I intend to use Wave optics module, RF module, Ray optics module, Materials library, Optimisation module, CAD import module

Guide/Supervisor Approval

I, Sreekanth Perumbilavil,

- 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: 08-04-2026

