

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** __ Kokila.S _____
- **User Type:** Ph.D. Scholar
- **Institution Name:** Dayananda Sagar University
- **Institutional Contact No:** 080 4909 2986
- **Research Topic:** Integrating IOT to sophistica defect detection predictive maintance of dynamics involved in health monitoring systems

Software Request Details

- **Software Name:** COMSOL and ANSYS
- **Justification for Software Request:** [This study involves the following objectives which are accomplished through the deployment of COMSOL/ANSYS
 - (i) To realise the physics the health monitoring system for visualisation.
 - (ii) To create real time scenarios to understand the parametric influences on health monitoring systems.
 - (iii) To develop prototype of the samples to be tested with varying dimensionality before building the hard ware.
 - (iv) To understand the profile distribution of the kinetics, mechanics involved in the force acting on a body and the response (measured in terms of active and reactive forces /internal and external forces)
 - (v) To develop case study to understand the acceleration, degree of freedom and the order of the system.
 - (vi) To establish a predictive maintenance system to be integrated for continuous sustainable automation and operation.

Guide/Supervisor Approval

I, Dr. Savitha Hiremath (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: Shimematu

Date: 28/2/25

Official Stamp/Seal: [Space for Institutional Stamp]



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