

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Nithin Krishna S
- **User Type:** ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☒ Masters
- **Institution Name** : Lovely Professional University
- **Institutional Contact No:** 0182 450 6100
- **Research Topic:** Advanced Aerodynamics

Software Request Details:

- **Software Name:** MATLAB
- **Justification for Software Request:** My research in Advanced Aerodynamics requires extensive use of Computational Fluid Dynamics (CFD) and system-level simulation. MATLAB, with its toolboxes such as Simulink, Aerospace, and CFD integration packages, is essential for modeling, analyzing, and visualizing aerodynamic phenomena. It enables pre-processing, solver coupling, and post-processing of CFD data, while Simulink allows integration of aerodynamic models with control systems for flight dynamics and stability analysis. MATLAB also supports coursework through numerical methods, fluid mechanics, and optimization projects, making it indispensable for both academic learning and research.

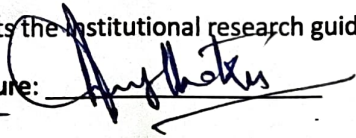
Guide/Supervisor Approval:

I, Dr. Amit Nakhin (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: 8/9/2024

Official Stamp/Seal

Lovely Professional University
Phagwara (Punjab)

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.