

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Toshit Jain
- **User Type:** Ph.D. Scholar
- **Institution Name:** Malaviya national Institute of Technology Jaipur
- **Institutional Contact No:** 9549891442
- **Research Topic:** Design and Development of Scaffold for Adjustable Bone Tissues Using Smart Materials Through Additive Manufacturing Technique

Software Request Details

- **Software Name:** LabVIEW
- **Justification for Software Request:**

LabVIEW is indispensable for my research because my **bespoke metal extrusion AM system** requires custom control that standard software cannot provide. It will act as the project's central nervous system, orchestrating precise **motor control, temperature regulation**, and real-time **data acquisition** during fabrication.

For characterization, LabVIEW will automate mechanical tests and synchronize data from various sensors. This integration creates a critical feedback loop, directly linking fabrication parameters to the final scaffold performance, which is essential for data-driven optimization.

Guide/Supervisor Approval

I, Dr. Jinesh Kumar Jain, Associate Professor, Malaviya national Institute of Technology Jaipur

- 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

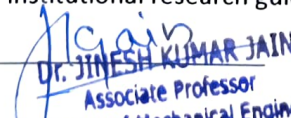
Approval Confirmation

- 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: 17/10/2025

Official Stamp/Seal:


DR. JINESH KUMAR JAIN
Associate Professor
Department of Mechanical Engineering
Malaviya National Inst. of Tech., Jaipur-302017