

I-STEM Software Request - Guide Approval Form

User Details

- **Name of Researcher:** Vikash Mishra
- **User Type:** ☐ Ph.D. Scholar ☐ Postdoctoral Researcher ☐ Bachelor's ☒ Masters
- **Institution Name:** Indian Institute of Technology-Hyderabad (IIT-H)
- **Institutional Contact No:** +91-9110015189
- **Research Topic:** Control loop modelling of MEMS-based IMU

Software Request Details

- **Software Name:** COVENTOR
- **Justification for Software Request:** COVENTOR is important for the simulation and fabrication-level modelling of MEMS-based IMUs, central to research on closed-loop control systems. It enables high-fidelity design of accelerometers, gyroscopes, and magnetometers through MEMS+ and CoventorWare, supporting multi-physics simulation across mechanical, electrical, and packaging domains. This access will allow accurate modelling of sensor dynamics and their integration with control algorithms. The software bridges theoretical development with practical fabrication insights, ensuring research quality, design feasibility, and experimental relevance for MEMS sensor systems.
- **Guide/Supervisor Approval**

I, Ashok Kumar Pandey (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: 08/08/2025

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

