

I-STEM Software Request - Guide Approval Form

User Details

- Name of Researcher: Balla Yugeswar
- User Type: Bachelor's of technology in Mechanical Engineering
- Institution Name : PDPM IIITDM Jabalpur
- Institutional Contact No: 076127 94094
- Research Topic: Analysis about mechanical forces on bodies.

Software Request Details

- Software Name: COMSOL Multiphysics.
- Justification for Software Request: COMSOL Multiphysics is highly useful for studying mechanical forces on bodies as it allows precise simulation of stress, strain, and deformation under various load conditions. It uses the finite element method to model complex geometries and material behaviors. The software helps visualize force distribution and identify critical stress regions. It also supports coupling with other physics, such as thermal or fluid effects, for realistic analysis. Overall, COMSOL reduces experimental effort and provides deeper insights into mechanical system performance.

Guide/Supervisor Approval

I, Dr. Manish Kumar Thakur (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: 14/10/2024

Official Stamp/Seal:

मनीष कुमार ठाकुर / Manish Kumar Thakur
सहायक प्राध्यापक / Assistant Professor
यांत्रिक अभियांत्रिकी / Mechanical Engineering
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