

Particle Based Methods in Engineering

Project work



Project Work



- Goal: deeper understanding of MPM/ DEM theory and numerical concepts
- Application of knowledge through extension of educational Python code
- Implementation of extensions/ new numerical features
- Verification and validation tests, convergence studies
- Collaborative work, reasonable task distribution allowed

- Complete implemented Python code including test cases
- Summary of the project work in a poster (template provided in the Moodle course)
 - Theoretical background of the developed topic
 - Conceptual overview of the implementation strategy within the Python framework
 - Clear and illustrative presentation of the validated simulation results
- Submission deadline for Python code and poster: **26.01.2026**
- Poster presentation at end of course: **02.02.2026** starting from 3 p.m.