

ME 544 Computational Mechanics Lab (0-0-2-2)

Introduction to operating systems and high-level programming languages, Use of symbolic software packages like MATLAB, MAPLE and MATHEMATICA, Hands-on practice using finite element software packages like ANSYS and ABAQUS as well as computational fluid dynamics related software such as COMSOL, OpenFOAM and FLUENT, Code development for problems involving solid mechanics, fluid mechanics and heat transfer.