Computer Aided Mechanical Engineering

Course Code:
ME 472
Course Type:
Area Elective
Credits:
3
Theoric:
2
Practice:
0
Laboratory Hour:
2
ECTS:
5
Prerequisite Courses:
Numerical Methods in Mechanical Engineering [1] Course Language:
English
Course Content:
Analysis of mechanical engineering problems using conventional computational tools. Solution of differential equations that arise in various fields of mechanics such as fluids, heat transfer, and solids and structures. Discretization in space and time. First-order

represenatation. Marching methods. Integration of equations. Runge-Kutta

commercial software will be used.

method. Solution of partial differential equations by finite difference method. Some

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