June 2016, MM424 Graduation Project Supervisor Dr. E. Gunay

MM424 MECHANICAL ENGINEERING APPLICATIONS II PROJECTS

H-TYPE BOGIE AXLE ASSEMBLY AND SUSPENSION SYSTEM DESIGN BY FINITE ELEMENT METHOD

Cem ÇAKMAK, Serdarcan ERYILMAZ, Suat Tümay ÖZYAZICI. Supervisor Assoc. Prof. Ezgi GÜNAY. June 2016

Considering the mechanical engineering major courses; statics, strength of materials, introduction to numerical methods and finite element analysis "Bogie system design project-Train axle assembly project" subject was selected to develop students design capabilities. H-type train vagon chassis was modelled by Autocad Inventor program and statik analyses were performed with Ansys-Workbench. Depending on the bogie frames with spring suspension mechanisms were also modeled and analyzes with Ansys-APDL program. Project was conducted with the help of VA-KO Company.