

ODTÜ KIBRIS'LA BİLİM EĞLENCELİDİR.

METU Northern Cyprus Campus, Department of Civil Engineering

CVE 410: Civil Engineering Dept./Container Offices

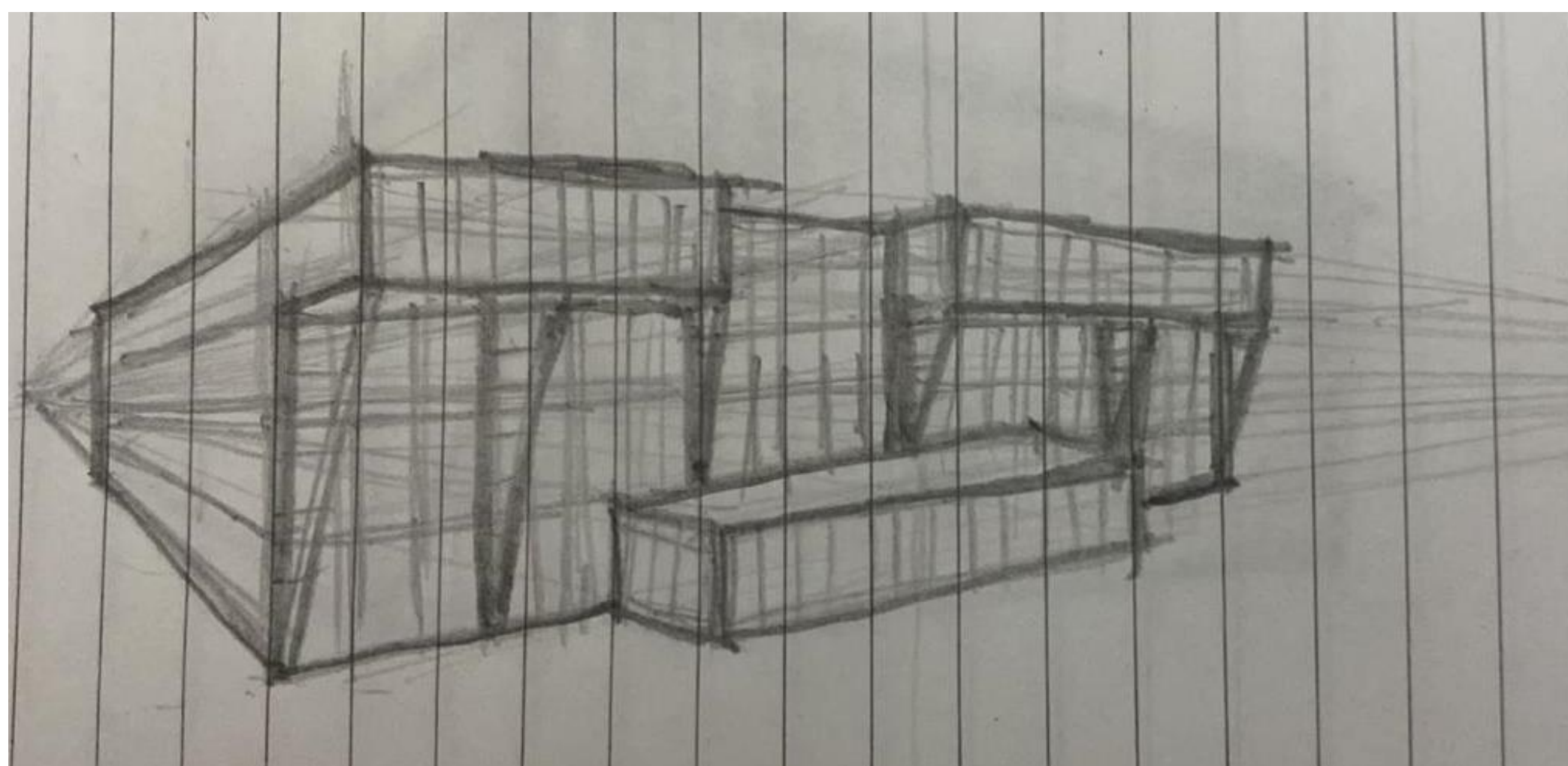
Khalid Abki, Abdul Razzak Alnajjar, Main Ghanem, Berat Yaşar, Atilla Efe, Berdan Ceylan

Assist. Prof. Dr. Ali Şahin TAŞLIGEDİK

Introduction and Statement of the Problem

Middle East Technical University NCC is one of the leading universities in Turkey and the Middle East. Furthermore, it has been proven as an attractive spot for international student. Accordingly, the number of students is increasing year by year which requires more academic buildings. This project is affording this need by providing a sustainable design considering the environment using a cost effective recycled shipping containers.

General view of the project



Architecture Sketch



Location of the building

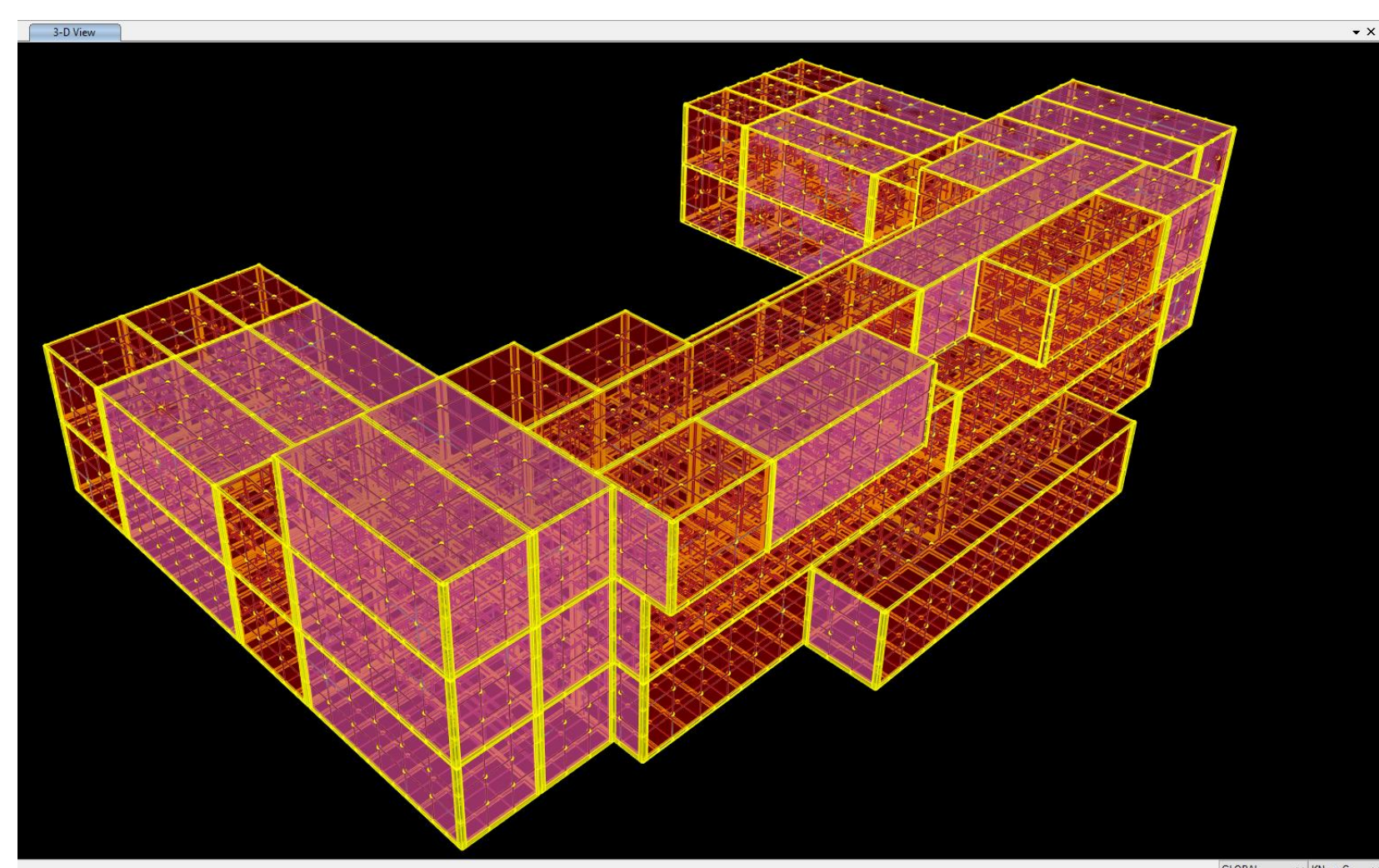


Render modeling

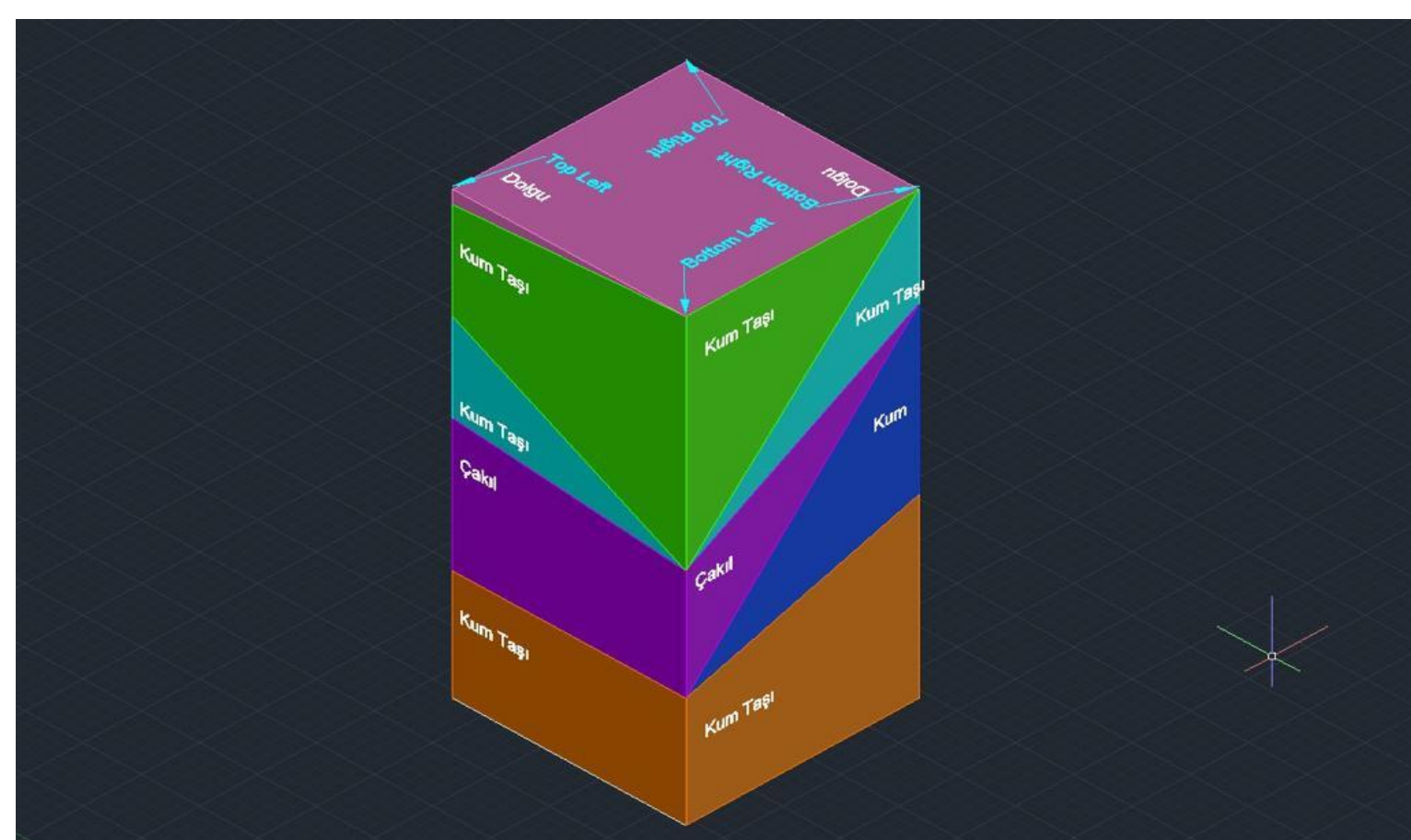
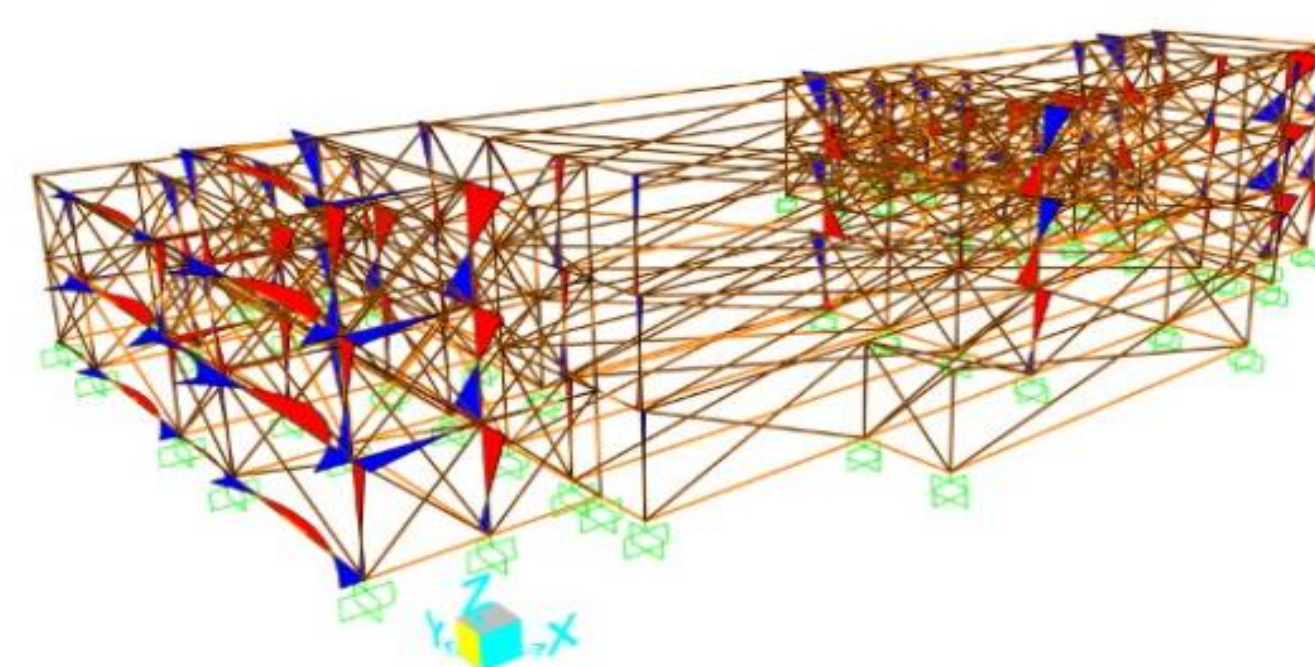


Repurposing shipping container

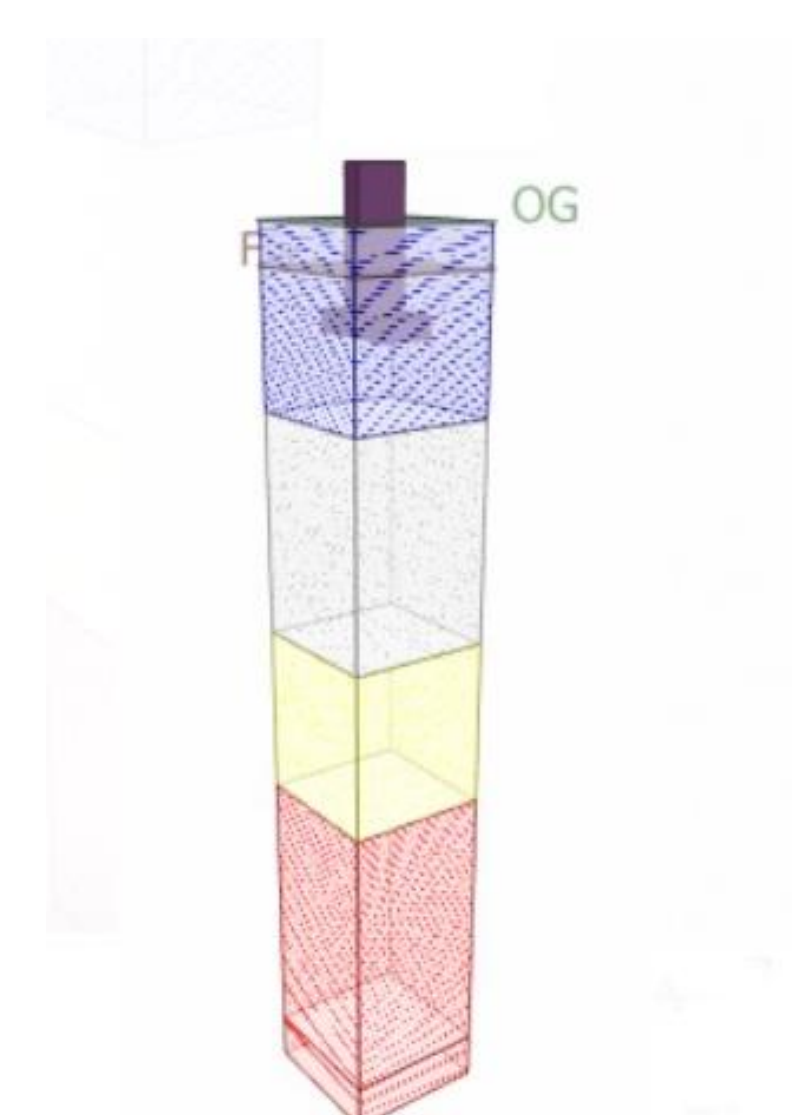
Recycling containers and relabeling them as structures is a new and sustainable way to obtain housing, working/studying areas, as well as any other type of indoor dedicated area. To change the purpose of these containers from moving freight to stable structures they must be validated and analyzed as a structure using software such as SAP2000. A proper foundation must be designed as well that could carry the structure and hold it in place.



SAP2000 Modeling



Soil layers



Foundation design